

City of Fort Lauderdale RFQ 12120-986

General Engineering Aviation Consultant Continuing Services

April 2, 2018 - 2:00 P.M.

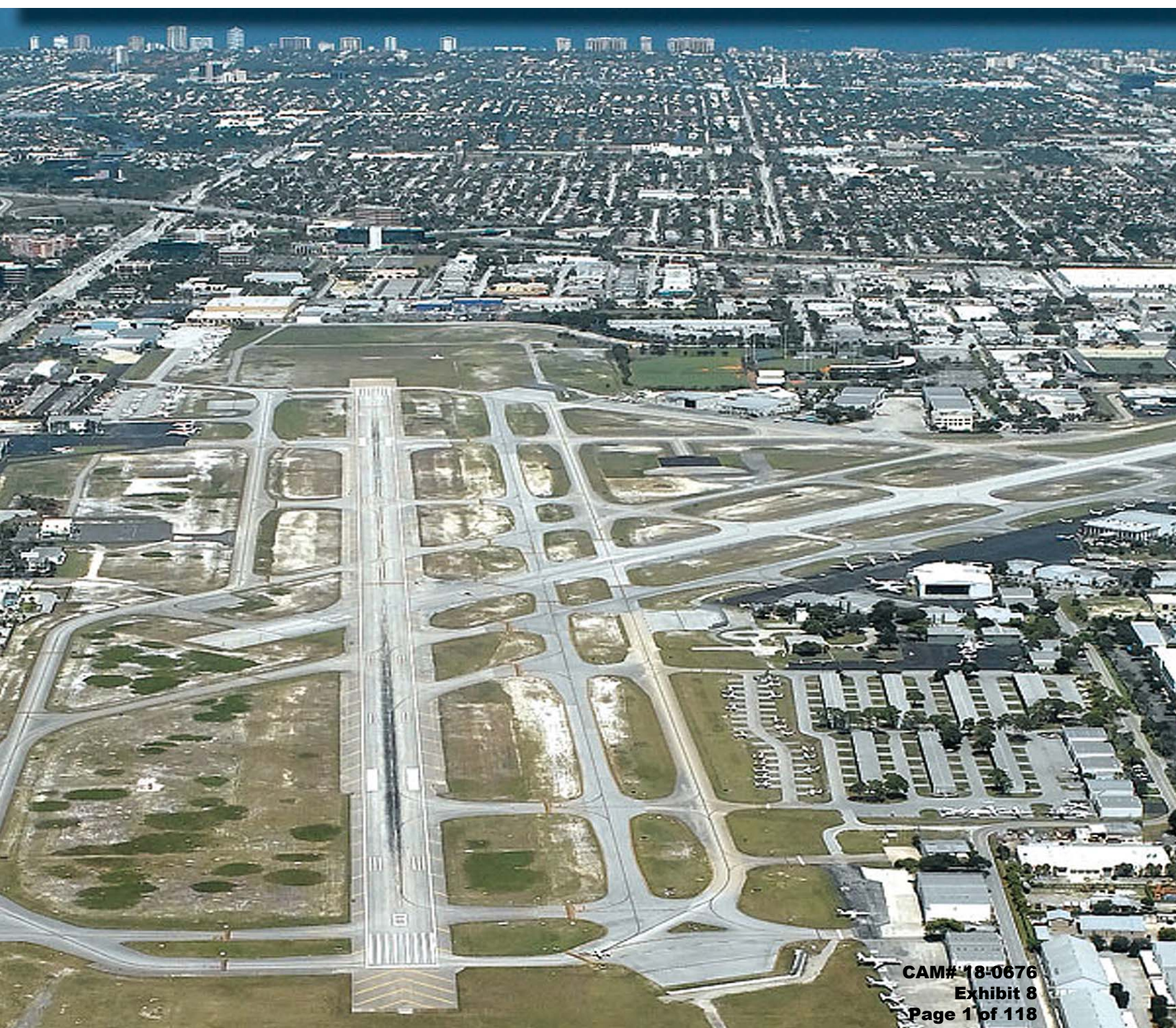




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1.0

*Man must rise above the
Earth,
to the top of the atmosphere
and beyond,
for only thus will he fully
understand the world in
which he lives
-Socrates*

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Executive Summary

2.0



Dear Selection Committee for General Engineering Aviation Consultant RFQ 12120-986:

An airport encompasses all facets of transportation including public transportation, pedestrian traffic, vehicular parking and roadways in addition to the aviation components. Over the last 20 years, KEITH AND ASSOCIATES (KEITH) and our supporting consulting team partners have successfully completed the design, permitting, construction and certifications of numerous transportation, utility and pavement projects at various airports. We understand the many challenges faced with improving and maintaining the transportation, utility infrastructure, in addition to the aviation infrastructure at these facilities and have demonstrated our ability to provide quality, functional designs, while maintaining budget parameters and expediting schedule requirements.

Our extensive aviation related experience provides us with a real understanding and respect for the numerous stakeholders, consultants, contractors and agencies that must work concurrently, effectively and in harmony for airport improvement projects to culminate in success. We recognize the critical importance of effectively coordinating with airline and FXE operations staff to minimize impacts to operations, beginning with development of design alternatives/concepts through construction. We further recognize that for all airside projects, advanced additional coordination is required with FAA and FXE operations representatives.

KEITH has long been recognized as a **veteran firm** within Broward county and was recently named as a top 20 firm in the state as a woman owned business. We are a multi-disciplinary firm that provides holistic design solutions with experience in all areas of professional services required for the development or redevelopment of land. Over the past 20 years, KEITH has completed varied assignments for aviation clients ranging from planning and surveying to engineering, landscape architecture and construction management services for landside and airside projects. Our in-house suite of services allows us to streamline project schedules, budgets and overall coordination, resulting in efficiencies and ease of communication with clients. Our 110 professional staff is led by President Dodie Keith-Lazowick. KEITH is headquartered in Pompano Beach with regional offices located throughout the state. This project would be run from our Pompano Beach location and managed by myself, John Thompson, PE, LEED AP.

The **Key Staff** for this project are our management and quality team. In addition to my role as the Contract Manager and Point of Contact, the remaining key staff are Dodie Keith-Lazowick, PLS, Principal-In-Charge, Thomas Donahue, PE, Quality Assurance/Quality Control Manager, James Thiele, PE, Senior Engineer, Alex Lazowick, PE, Project Manager, and Lee Powers, PSM, lead surveyor and GIS specialist. KEITH is very capable of handling most of the day-to-day needs but we know that airports have many stakeholders and complex regulatory structures requiring special knowledge and extensive expertise. To that end, KEITH has assembled a team of mission specialists to meet critical needs. For this effort, we have **partnered** with our friends at RS&H, Hillers Electrical Engineering, Tierra South Florida, Lakdas/Yohalem, Cyriacks Environmental and Dickey Consulting.

These mission specialists will meet your technical, tactical and strategic objectives. They are all major talents, dedicated to the Aviation industry with the relationships and expertise required for the heaviest of lifts. We will draw from these subconsultants on an as needed basis. Should the mission require expertise not covered by current team members, we will find the needed specialists and add them to the team. KEITH evaluates potential partners

on several factors including efficiency and capability, history of performance and reputation, as well as enterprise size and disadvantaged ownership status. KEITH engages with a broad section of the industry here in Florida, and we actively encourage disadvantaged, small and community-based businesses wherever they are found.

We believe our team has been curated to provide a unique blend of experiences representative of this RFQ's stated **requirements** encompassing experience with aviation design development, construction engineering and inspection and grant support services. Our team has experience effectively managing this type of contract specifically for aviation clients. Presently, we hold the general consulting contract with the Broward County Aviation Department (BCAD) for Utilities and Paving. We are also major subconsultants on several general consulting teams. Through one such contract, we have actually surveyed most of FXE. We are involved in all phases of these projects from conception and planning, through implementation and design, to permitting and construction. While other teams may be content to manage projects from a distance, the KEITH team is cohesive and lean enough that every one of us will roll-up our sleeves and get to work.

To further enhance our efficiency, KEITH keeps abreast of changes in the industry through memberships in professional organizations such as the Florida Airports Council. We also place special emphasis on technology in the areas where technological adaptation can improve our performance. For example, our GIS experience extends into developing and implementing best practice standards and workflows for GIS and CAD data collection, allowing us to collect data and work seamlessly through GIS, CAD and BIM software packages. We also authored BCAD's Civil Engineering BIM Standard. Keeping pace with **industry trends and technologies** translates into streamlined workflows that generate savings for our clients.

KEITH prides itself on being an efficient family owned business. The firm is particularly prudent with our client's resources because we know that locally, just as at home, every dollar counts. KEITH also prides itself on being involved in the community through the Fort Lauderdale Chamber and Greater Fort Lauderdale Alliance, among others. KEITH understands that sustainable business requires not only a strong relationship with our clients, but a positive relationship with the communities it serves.

Why choose KEITH? We have assembled a team of consultants that have worked together on many engineering project assignments and who provide relevant experience performing the exact type of work required under this RFP. We have the **experience**, nimble organizational **structure, understanding** of stakeholder issues and the **technology** to achieve stratospheric results with strong value from take-off to touch-down.

Sincerely,

A handwritten signature in blue ink, appearing to read 'John R. Thompson', with a stylized flourish at the end.

John R. Thompson, P.E., LEED AP
Director of Aviation

KEITH AND ASSOCIATES, INC.
301 East Atlantic Boulevard
Pompano Beach, FL 33060
PH: 954-788-3400 / CL: 954-235-9587 / EM: jthompson@keith-associates.com



Firm Qualifications and Experience

3.0



Firm Overview

Founded 20 years ago, Keith and Associates (KEITH) has called Broward County home throughout its existence. The KEITH team's roots stem from the City of Fort Lauderdale where its founder Mr. Bill Keith was raised. Today, KEITH is a multi-disciplinary firm that provides holistic design solutions for its airport partners, having completed the design, permitting, construction and certifications of numerous transportation, utility and pavement projects at various airports. KEITH has a dedicated team of over 110 professionals, whose technical work experience is combined with an extensive working knowledge of local and regional projects. This convergence of experience has resulted in the development of important relationships with key agencies, in addition to a tremendous database of knowledge and information concerning local, past and ongoing projects, which is an invaluable asset we can provide to our clients.

Relevant Experience

KEITH has the capacity to deliver a holistic approach for land development projects and aviation projects in particular, with services and expertise under one leadership team. This includes engineering, surveying, SUE, comprehensive planning, landscape architecture, construction management and virtual design and construction services. This start to finish service capability has achieved positive results, not only because of our proactive, effective program management but also because of our strong technical expertise and steadfast adherence to our quality control program. Moreover, our team is well-versed with the FAA's AC 150/5100-14E - *Architectural, Engineering, and Planning Consultant Services for Airport Grant Projects*. All of our projects at FLL are completed from start to finish while keeping the Circular a priority. These characteristics distinguish the KEITH team as evidenced by the projects listed on the following pages, including the SF 330.



FLL South Runway

1. PROFESSIONAL CONSULTANT SERVICES FOR FT. LAUDERDALE/HOLLYWOOD INTERNATIONAL AIRPORT (FLL) AND NORTH PERRY AIRPORT (HWO) UTILITY AND PAVEMENT PROJECTS

- KEITH is serving as the prime consultant providing professional services for design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects, which include construction, rehabilitations and renovation activities. Some of the assigned projects include:

- 12" Westside Water Main Loop
- 16" Water Transmission Main North Perimeter Road
- North Runway 10L-28R Pavement Restoration and Repairs
- South Runway 10R-28L Drainage Mitigation
- FedEx North Runway 10L-28R Emergency Repair
- North Runway 10L-28R Miscellaneous Repairs
- Short Term Traffic/Parking Improvements
- North Runway 10L-28R Study Peer Review
- T4 Gate 504 Camera System
- Taxicab-Limo Hold Lot Communications Infrastructure
- South Runway 10R-28L Settlement Monitoring
- FLL and HWO Pavement Management
- Transportation Network Companies (TNC) Parking Lot
- Airside Pavement Markings
- South Runway 10R-28L Stormwater Remediation Improvements
- West Side Dry Detention Pond Improvements
- Airfield Sign Replacement Study
- South Runway 10R-28L and Midfield Taxiways Warranty Remediation

2. Sheltair Parcel 16-C at Fort Lauderdale Executive Airport (FXE) - KEITH is providing planning, civil engineering design, permitting for landside and airside improvements and planning services for the proposed Sheltair Facility located on Parcel 16-C. In addition to permitting through the City of Fort Lauderdale and multiple Broward County agencies, KEITH obtained FAA Approval for the filing of Notice of Proposed Construction (Form 7460-1 and Form 7460-2) for the proposed hangar. KEITH developed two airspace plans, which included height information correlated to mapped points on the airspace plans. These points were reviewed by the FAA with the Part 77 surface and the airspace layout plan.

3. Utility Atlas Updates at FLL - The utility atlas is an ongoing BCAD CIP effort compiling years of historic as-built and record drawing information while verifying and incorporating current surface and subsurface utility infrastructure design and survey data. New record drawing and as-built information from ongoing construction projects throughout the airport are being continuously added to the atlas and made available to the airport's consultants and contractors to assist in their design and construction needs.

4. GIS Services for the Broward County Aviation Department, Fort Lauderdale, FL - As a subconsultant, KEITH is responsible for CAD-to-GIS data conversion, CAD data submittal standards and FAA airport GIS support. Data entries and updates are carried out as per FAA AC 150/5300-18B and subsequent updates are submitted through the Airport Geographical Information System (AGIS) online portal. As a result, all BCAD departments have accesses to different online portals relevant to their work areas. With every BCAD asset being updated with the appropriate object data, BCAD Maintenance is already seeing a huge time and budget savings. In addition, the Planning and Capital Improvements Departments can quickly use utility, parcel, terminal, gate stands and other load information to quickly plan and layout projects.

5. North Runway Miscellaneous Pavement Repairs at Fort Lauderdale/Hollywood International Airport (FLL) - KEITH provided civil engineering, construction administration and resident project representation (RPR) services for the repair of several areas located along Runway 10L-28R as well as one area on Taxiway "B". The project includes the design of the pavement repairs, pavement markings, runway grooving and field observations by the RPRs. There were two phases of RPR, the first phase for the actual pavement repairs and the second phase to groove the runway and install final striping. The project construction included nightly runway closures, milling and overlaying bituminous concrete pavements, runway pavement grooving and pavement marking.

6. Northern, Western and Ravenswood Drainage System Study at FLL - CIP Project- KEITH performed surveying, subsurface utility engineering and civil engineering services to prepare an extensive drainage study proposing to combine the North runway (10L-28R) drainage basin (244.25 ac) with the Ravenswood drainage basin (108.16 ac) located on the West side of Interstate-95. Numerous iterations with varying lay-out options were considered and all existing conditions, permitting limitations, existing planning and FAA criteria were taken into consideration. KEITH was responsible for setting-up and running the ICPR program modeling, evaluating the results of the program run, authoring the draft of the final report and preparing the project cost estimates.

7. Sheltair Hangar Expansion at Pompano Air Park (PMP) - KEITH was retained by SheltAir to develop and process site plan drawings, civil design for water, sewer, paving and drainage improvements, survey, SUE and landscape architecture. We also provided construction phase services for the improvements to support the addition of office/hanager buildings, approx. 96,100 SF of floor area on 19.6 acres. Additionally, KEITH modified the Air Park Master Drainage Plan/Permits as required to proceed with the improvements.

8. Palm Beach International Airport (PBI) Feature Signage and Landscape Design, Permitting and Bidding Services - KEITH's landscape architects developed the concept for the main signage that represents the elegance and sophistication of the new PBI logo. This traditional approach to a signage element is integrated within the layout of the landscape. It is centered on berms while surrounded by palms trees and complementary plantings. This option allows for a monumental form that easily translates into a branding opportunity.



9. New South Runway 10R-28L at Fort Lauderdale/Hollywood International Airport (FLL) - KEITH provided professional design services for the Expansion of Runway 10R/28L, as ENGINEER OF RECORD for Utility and Roadway Designs, as a subconsultant and was responsible for the complete relocation and upgrade of the existing water distribution and sanitary sewer force main utilities surrounding the runway improvements as well as coordination with all utility stakeholders.

10. Obstruction Analysis, Runway Data Acquisition & Navigational Aide Locations at Ft. Lauderdale/ Hollywood International Airport- KEITH provided surveying and GIS services to facilitate the 2011 updating of the Airport Layout Plan (ALP) for FLL, performing an Obstruction Analysis, Runway Data Acquisition and Navigation Aide Locations, as sub-consultant partner to RS&H. all work was performed in accordance with the Federal Aviation Administration's Circulars 150_5300_16A, 150_5300_17B, and 150_5300_18B.

"I am always confident in all of the tasks we give to Keith and Associates. They are very committed and that is why they have been very successful at BCAD."

Marc Gambrill, PE
Assistant Director of Aviation for Capital Development
Broward County Aviation Department (BCAD)



FLL New Maintenance Facility

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

General Engineering Aviation Consultant Continuing Services Contract (Fort Lauderdale, Florida)

2. PUBLIC NOTICE DATE

March 9, 2018

3. SOLICITATION OR PROJECT NUMBER

12120-986

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Mr. John Thompson, P.E., LEED AP, Director of Aviation

5. NAME OF FIRM

Keith and Associates, Inc.

6. TELEPHONE NUMBER

(954) 788-3400

7. FAX NUMBER







n/a

8. E-MAIL ADDRESS

jthompson@keith-associates.com

C. PROPOSED TEAM

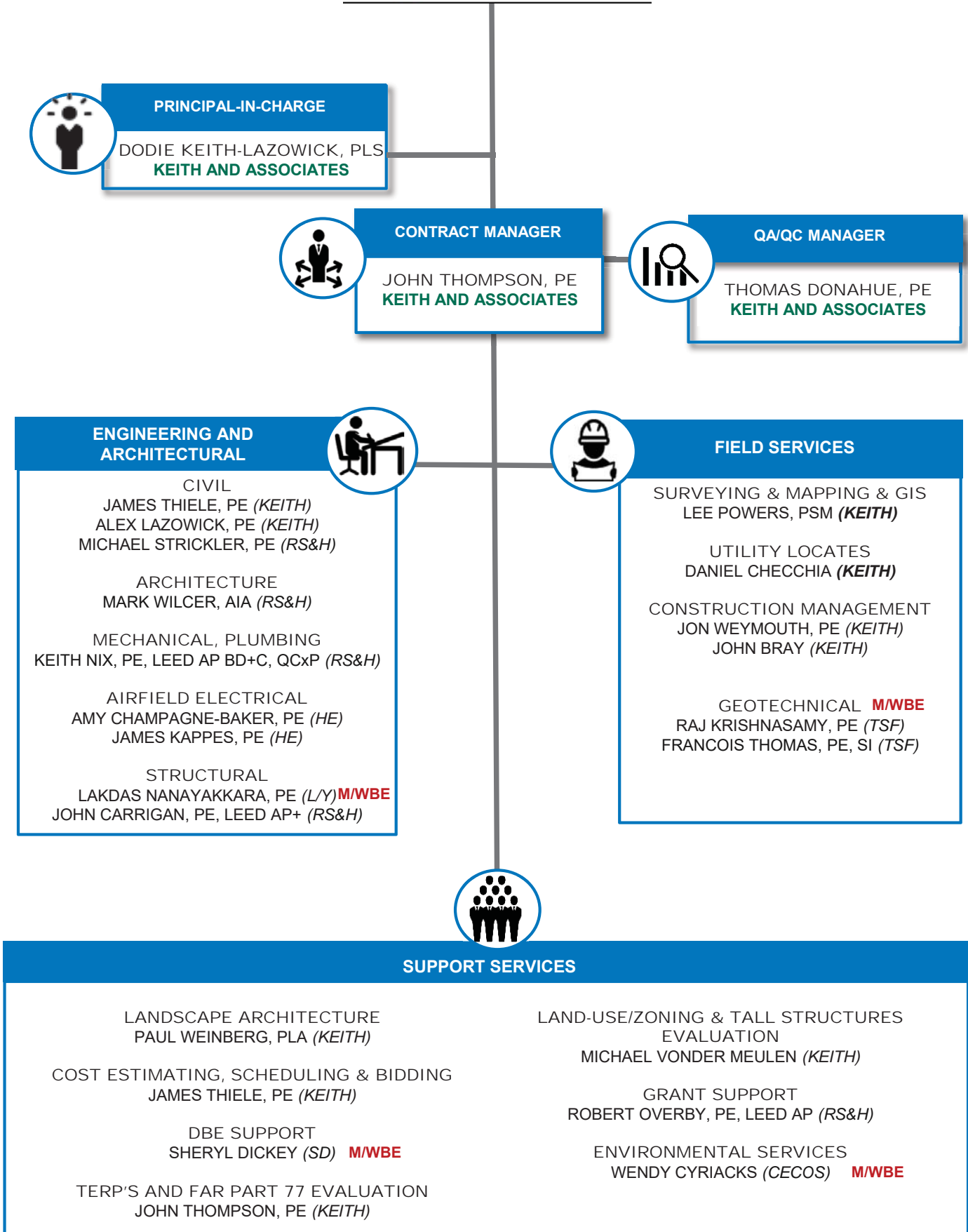
(Complete this section for the prime contractor and all key subcontractors.)

| | (Check) | | | | 9. FIRM NAME | 10. ADDRESS | 11. ROLE IN THIS CONTRACT |
|----|---------|-----|---------|----------------|---|--|--|
| | PRIME | J-V | PARTNER | SUBCON-TRACTOR | | | |
| a. | ✓ | | | | Keith and Associates Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE | 301 East Atlantic Boulevard Pompano Beach, FL 33060 | Civil Engineering, Surveying, GIS, Subsurface Utility Engineering, Landscape Architecture, Planning, Construction Management/ Inspection |
| b. | | | | ✓ |  <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE | 3125 W Commercial Blvd, Suite 130 Fort Lauderdale, FL 33309 | Mechanical, Plumbing, Civil and Structural Engineering, Architect, Grant Support |
| c. | | | | ✓ |  HILLERS ELECTRICAL ENGINEERING, INC. <input type="checkbox"/> CHECK IF BRANCH OFFICE | 23257 State Road 7, Suite 100 Boca Raton, FL 33428 | Electrical Design |
| d. | | | | ✓ |  <input type="checkbox"/> CHECK IF BRANCH OFFICE | 2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411 | Geotechnical Engineering, Materials Testing, and Inspection Services |
| e. | | | | ✓ |  CONSULTING ENGINEERS www.lyengineering.com <input type="checkbox"/> CHECK IF BRANCH OFFICE | 2211 N.E. 54 th Street Fort Lauderdale, FL 33308 | Structural Engineering |
| f. | | | | ✓ |  <input type="checkbox"/> CHECK IF BRANCH OFFICE | 3001 SW 15 th Street, Suite B Deerfield Beach, FL 33442 | Environmental Consulting |
| g. | | | | ✓ |  Public Relations Project Management Strategic Planning Economic Development "Sustaining Communities" <input type="checkbox"/> CHECK IF BRANCH OFFICE | 1033 NW 6 th Street, Suite 206 Fort Lauderdale, FL 33311 | DBE Support Services |

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

✓ (Attached)

STANDARD FORM 330



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | |
|---|--|----------------------|----------------------------|
| 12. NAME A. Dodie Keith-Lazowick, P.L.S. | 13. ROLE IN THIS CONTRACT Principal-in-Charge | 14. YEARS EXPERIENCE | |
| | | a. TOTAL 41 | b. WITH CURRENT FIRM 12 |

15. FIRM NAME AND LOCATION (City and State)

Keith and Associates, Inc., Pompano Beach, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)

BS Land Surveying, University of Florida, 1982

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Surveyor & Mapper, Florida, License No. 4105

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Florida Survey and Mapping Society (F.S.M.S.), Broward County Chapter of F.S.M.S., American Congress on Surveying and Mapping, National Society of Professional Surveyors, Co-editor, "Laws and Regulations Affecting Surveying Practice in Florida," ACSM/ FSPLS Student Chapter, 1982, Co-author, "Total Station Capability," Board Appointed, 2008 Girl Scouts of Broward County's Community Partnership Award

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|---|-----------------------------------|--|
| a. | Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Ms. Keith-Lazowick is serving as the Principal-in-Charge for the design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects. The work performed is located both landside and airside. This is a 5-year task work order contract where Keith and Associates (KEITH) is serving as the Prime consultant. | | |
| b. | South Runway 10R/28L Expansion Lead Design Team at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2015 | CONSTRUCTION (If applicable) 2016 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As the Principal Contract Manager, Ms. Keith-Lazowick was responsible for the general oversight and coordination of the preliminary engineering and design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000-foot runway expansion project. Additional responsibilities included the preparation of the Design Criteria Package for the Design/Build portion of the tunnel and bridge section over the FEC Railroad, US 1 and Interstate 595 entrance ramps, all surveying and mapping functions including Utility Coordination and Subsurface Utility Locations and identification. Project scope included both design and construction administration and civil engineering inspections to accept and certify the project. | | |
| c. | Utility Atlas Updates for Fort Lauderdale/Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Ms. Keith-Lazowick serves as the Contract Manager for this extensive 550 + acres project consisting of engineering design surveys, establishing geodetic and vertical control, drainage as-builts, subsurface utility engineering and aerial photography survey support. The utility atlas is an on-going effort compiling years of historic as-built and record drawing information as well as current surface and subsurface utility infrastructure. New information from on-going construction projects throughout the airport is being added to the atlas and made available to the airport's consultants and sub-consultants to assist in their design needs | | |
| d. | Hangar Improvements at Merritt Island Airport and Space Coast Regional Airport Runaway Improvements (Merritt Island and Titusville, Florida) | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) 2017 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH, as a subconsultant partner to Michael Baker International provided surveying services for these two Titusville-Cocoa Beach Airport Authority projects. Keith conducted topographic surveys to facilitate the design of a new hangar system, as well as the rehabilitation of the runway ends. | | |
| e. | Airport Capital Improvement Program at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2010 | CONSTRUCTION (If applicable) 2015 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Ms. Keith-Lazowick served as the Contract Manager for multiple teams providing planning, engineering and construction services. Her ability to properly scope a project, meet schedule requirements and create reasonable budgets has been proven time and again through the multiple assignments under these contracts. Signature projects include: Taxiway C West Reconstruction Project, AGIS Safety Critical Airfield Signage Survey, Northern and Ravenswood Drainage Systems Analysis, Airfield Modification/High-Speed Exits, Obstruction Analysis, HWO Runway Ends 9R/27L, Westside Development Utility Certification Project and Westside Cavity Study. | | |

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | |
|---|--|--|--|-----------------------|--------------------------------------|
| 12. NAME John Thompson, P.E., LEED AP | 13. ROLE IN THIS CONTRACT Contract Manager | 14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL 15</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM <1</td> </tr> </table> | | a. TOTAL 15 | b. WITH CURRENT FIRM <1 |
| a. TOTAL 15 | b. WITH CURRENT FIRM <1 | | | | |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, Embry-Riddle Aeronautical University, Cum Laude, 2004 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) State of Florida Professional Engineer #70214, 2009 Puerto Rico, Professional Engineer #26976 | | | |

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

LEED® Accredited Professional. Professional Development: Foundations of Project Management; Project Delivery Online Courses; Client Service Manager Training; OSHA 10-Hour; Hazard Communications; Confined Space Entry; Sustainable Airport: A Flight Plan for the Future, Florida Engineering Society Journal, April 2009.

19. RELEVANT PROJECTS

| (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED | |
|---|--|--|--|
| a. | Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Thompson is serving as the Contract Manager for the design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects. The work performed is located both landside and airside. This is a 5 year task work order contract where Keith and Associates is serving as the Prime consultant. | | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| b. | North Runway 10L/28R Miscellaneous Pavement Repairs at Ft. Lauderdale/ Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Repair of several areas located along Runway 10L-28R as well as one area on Taxiway "B". The project construction included nightly runway closures, milling and overlaying bituminous concrete pavements, runway pavement grooving, and pavement marking. The project included the design of pavement repairs, and field observations by resident project representatives. | | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| c. | Taxiway D & E Rehabilitation/Reconstruction - Palm Beach International Airport (West Palm Beach, Florida) | PROFESSIONAL SERVICES 2016 | CONSTRUCTION (If applicable) 2016 |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project included rehabilitation, reconstruction and new construction of taxiways and connectors including elimination of a "Hotspot" at the intersection of Taxiway E, L and L3 through airfield reconfiguration, relocated taxiway connectors and upgrades to Taxiway E to full ADG III standards. Mr. Thompson examined several construction phasing alternatives to develop an amicable phasing solution balancing constructability, cost, quality and the needs of the airport users. Extensive communication and coordination was necessary with the FAA, commercial airlines, Airport Operations and Air Traffic Control personnel. Mr. Thompson served as Engineer of Record and Resident Project Representative. | | <input type="checkbox"/> Check if project performed with current firm | |
| d. | Golfview Infrastructure, Phase 1 – Palm Beach International Airport (West Palm Beach, Florida) | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) 2017 |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project consists of the construction of various infrastructure improvements necessary to support aviation-related development in the former Town of Golfview, in the northwest corner of PBI. This includes an improved entrance roadway from Military Trail via Green Street, a new sanitary sewer system and force main, a water main distribution system, power and communication duct banks, roadway and apron lighting systems, miscellaneous electrical improvements, new security fence and gates and drainage system improvements on the site to support the proposed future aviation facility development. Mr. Thompson served as Project Engineer. | | <input type="checkbox"/> Check if project performed with current firm | |
| e. | Southside Airport Redevelopment Program - Palm Beach County Park (Lantana) Airport (Lake Worth, Florida) | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) 2017 |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The purpose of the Airport Redevelopment Program was to support existing and future planned development associated with general aviation facilities located on the Southside of the airport; consisting of existing storage and maintenance hangars, a new Fixed Base Operator (FBO) terminal building, relocated fuel farm, new aircraft storage and maintenance hangars, T-hangars, aprons and taxilanes. The Airport Redevelopment Program was separated into four (4) major program phases. The improvements included in the contract documents portion of the Phase 1 and 2 project included the construction of waste water collection system modifications including gravity sewer and manholes, potable and fire suppression water distribution line modifications, hydrants and appurtenances, power and communication duct banks, manholes, drainage system modifications and improvements, Airport Operations Area (AOA) security fencing, access control gates and centralized access control system, box and t-hangars, landscape and irrigation modifications and improvements and roadway signage and markings. Mr. Thompson served as Project Engineer. | | <input type="checkbox"/> Check if project performed with current firm | |

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | | | |
|---|--|--|--|-----------------|-----------------------------|-----------|----------|
| 12. NAME Thomas Donahue, P.E. | 13. ROLE IN THIS CONTRACT QA/QC Manager | 14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">a. TOTAL</td> <td style="width: 50%; text-align: center;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">1</td> </tr> </table> | | a. TOTAL | b. WITH CURRENT FIRM | 40 | 1 |
| a. TOTAL | b. WITH CURRENT FIRM | | | | | | |
| 40 | 1 | | | | | | |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, FL | | | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering, Northeastern University, 1978 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) State of Florida Professional Engineer, #60529, 2003 | | | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) National Association of Industrial and Office Parks (NAIOP), Member; Institute of Transportation Engineers, Gold Coast Chapter, Member | | | | | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|---|-----------------------------------|--|
| a. | Sheltair Hangars 26 & 27 at Pompano Beach Airpark (PMP) (Pompano Beach, Florida) | PROFESSIONAL SERVICES 2018 | CONSTRUCTION (If applicable) 2018 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates provided civil construction design, project coordination and construction inspection services for Sheltair Hangars 26 and 27 at PMP. Mr. Donahue served as QA/QC Manager responsible for internal quality assurance and quality control aspects during project design and the construction process to ensure that all designs met local, state and federal compliance and internal QC processes. <div style="text-align: right;"> <input checked="" type="checkbox"/> Check if project performed with current firm </div> | | |
| b. | Roadway Pavement Management Study and Design, Logan International Airport, (MPA 1.717AL) (Boston, MA) | PROFESSIONAL SERVICES 1999 | CONSTRUCTION (If applicable) 1999 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Through a series of three projects, Project Engineer responsible for researching and preparing a roadway system inventory documenting the construction and maintenance history of all roadway improvements from 1948 to the present. Supervised thorough field inspection of all pavements for pavement distresses and calculated a pavement condition index report. Developed a plan with recommendations for roadway pavement replacement or maintenance. Prepared construction plans for roadway maintenance and repairs including plans, specifications and estimate. <div style="text-align: right;"> <input type="checkbox"/> if project performed with current firm </div> | | |
| c. | Pavement Management Study, Logan International Airport, Boston, MA/Hanscom Airfield (MPA 1.596) (Bedford, MA) | PROFESSIONAL SERVICES 1999 | CONSTRUCTION (If applicable) 1999 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Research and preparation of a construction and maintenance study of all airfield pavements. Developed airfield-wide layout drawings for use in pavement inspection of two major airfields. <div style="text-align: right;"> <input type="checkbox"/> if project performed with current firm </div> | | |
| d. | Second Airfield Lighting Vault Study, Logan International Airport (Boston, MA) | PROFESSIONAL SERVICES 1999 | CONSTRUCTION (If applicable) 1999 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Siting study of alternative locations for a planned second electrical vault to serve the airfield's expanding electrical needs. Responsible for analysis of sites in relation to airspace surfaces, environmental buffers, and access to airfield circuits, as well as recommendations, report development and presentations. <div style="text-align: right;"> <input type="checkbox"/> Check if project performed with current firm </div> | | |
| e. | Miami Dade County Public Schools (Miami-Dade County, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Donahue served as QA/QC Manager responsible for internal quality assurance and quality control aspects during project design and the construction process to ensure that all designs met local, state and federal compliance and internal QC processes. Projects included Southwest Miami Senior High School, Hialeah-Miami Lakes Senior High School and Benjamin Franklin K-8 Center. <div style="text-align: right;"> <input checked="" type="checkbox"/> Check if project performed with current firm </div> | | |

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | |
|--|---|---|--|-----------------------|----------------------------------|
| 12. NAME James Thiele, P.E. | 13. ROLE IN THIS CONTRACT Senior Project Engineer | 14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">a. TOTAL 40</td> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">b. WITH CURRENT FIRM 7</td> </tr> </table> | | a. TOTAL 40 | b. WITH CURRENT FIRM 7 |
| a. TOTAL 40 | b. WITH CURRENT FIRM 7 | | | | |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, University of Miami, 1978 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida, License No. 33256 | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) | | | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|---|-----------------------------------|--|
| a. | Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Thiele is serving as the Senior Project Manager for the design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects at FLL and HWO. The work performed is located both landside and airside. This is a 5-year task work order contract where Keith and Associates (KEITH) is serving as the Prime consultant. | | |
| b. | South Runway 10R/28L Expansion Lead Design Team at Fort Lauderdale/Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2015 | CONSTRUCTION (If applicable) 2016 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Thiele was the Engineer on Record for this project. The proposed project includes civil engineering design for the stormwater management system and the water sanitary sewer systems to accommodate the construction of an 8,000-foot runway on the current footprint of the existing 10R/28L general aviation runway. The overall length of the proposed runway requires the design to include the construction of multiple tunnels and bridge segments crossing over the airport perimeter road, FEC Railroad tracks and the U.S. 1 roadway corridor, over which the new runway will be constructed. | | |
| c. | Northern, Western and Ravenswood Drainage System Study for Fort Lauderdale/Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2015 | CONSTRUCTION (If applicable) 2015 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm With the construction of the new South Runway and decommissioning of the Westerly runway, the County was interested in developing an area of the vacated land of the Westerly runway into commercial lease parcels. To consider this the overall drainage system, the Northerly runway needed to be evaluated with a proposed connection under I-95 to County owned property on the West side of I-95. KEITH performed hydraulic calculations, considered viable options in construction of such an interconnection and developed a detailed report with cost estimates of the various options to route and manage the existing and proposed storm-water run-off. | | |
| d. | Airport Expansion Program Water and Sewer Force Main Relocation/Up-grades at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2013 | CONSTRUCTION (If applicable) 2016 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm With the planning of runway South Runway 10R-28L, it was necessary to relocate/up-grade the airports transmission water mains and sewer force mains that conflicted with the new improvements. This included the design, permitting and construction administration of eight separate design packages that totaled over 19,000 ft of new water main and force main transmission lines that serve the airport. It was also necessary to prepare four separate demolition design packages for the removal of the existing lines. Mr. Thiele coordinated these permit applications and the certification packages expeditiously with the agencies and kept BCAD/ PMO informed of the progress of these completions throughout the term of these projects. | | |
| e. | Canopy Projects at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2013 | CONSTRUCTION (If applicable) 2015 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Following the hurricanes of 2004, the County desired to replace the shade canopies along the terminal walkways for the upper level ticketing/ departure approach for terminals 1, 2 and 3. Keith and Associates prepared design plans for the demolition requirements of this project and civil design aspects of this project. This project includes installation of a canopy at the Economy Parking area. Keith and Associates is also providing a full time resident project inspector for the construction of this project. Through our relationships with Broward County EPGM, we were able to quickly obtain a stormwater permit exemption for this project. | | |

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | |
|--|---|---|--|-----------------------|----------------------------------|
| 12. NAME Alex Lazowick, P.E. | 13. ROLE IN THIS CONTRACT Project Manager | 14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">a. TOTAL 10</td> <td style="width: 50%; text-align: center;">b. WITH CURRENT FIRM 8</td> </tr> </table> | | a. TOTAL 10 | b. WITH CURRENT FIRM 8 |
| a. TOTAL 10 | b. WITH CURRENT FIRM 8 | | | | |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, University of North Florida, 2010 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida, License No. 78625 | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ASCE Member, FES Member, BIM Smart Foundation, Member, BuildingSMART Foundation Member, OSHA 30-Hour Safety Certification, FDOT Maintenance of Traffic Intermediate | | | | | |

19. RELEVANT PROJECTS

| (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED | |
|---|--|--|--|
| a. | Sheltair Parcel 16-C at Fort Lauderdale Executive Airport (FXE) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) N/A |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates (KEITH) was responsible for providing planning, landscape architecture, civil engineering design, and permitting for both landside and airside improvements for the proposed Sheltair Facility located on Parcel 16-C at the Fort Lauderdale Executive Airport (FXE). Sheltair obtained a lease with the City of Fort Lauderdale to build a combination of office, hangar, with associated drive aisles, parking, aprons, taxiway connection, and site utilities at FXE. Access and utilities will be provided from NW 56th Street. Connections to Taxiway Charlie will be provided by designed taxiway connectors 'C4'. The facility is anticipated to be approximately 1,650 square feet of office and 16,500 square feet of hangar area with over an acre of associated site work. The associated ramp was designed to have the capacity to support G650 Aircraft vessels. | | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| b. | Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Lazowick is serving as the Civil Designer for the design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects at FLL and HWO. The work performed is located both landside and airside. This is a 5-year task work order contract where KEITH is serving as the Prime consultant. | | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| c. | South Runway 10R/28L Expansion Lead Design Team at Fort Lauderdale/Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2015 | CONSTRUCTION (If applicable) 2016 |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Civil Designer, Mr. Lazowick was responsible for the preliminary engineering and final design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000-foot runway expansion project. Project scope included both design and construction administration and civil engineering inspections to accept and certify the project. The overall length of the proposed runway requires the design to include the construction of multiple tunnels and bridge segments crossing over the airport perimeter road, FEC Railroad tracks and the U.S. 1 roadway corridor, over which the new runway will be constructed. | | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| d. | Northern, Western and Ravenswood Drainage System Study for Fort Lauderdale/Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2015 | CONSTRUCTION (If applicable) 2015 |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE With the construction of the new South Runway and decommissioning of the Westerly runway, the County was interested in developing an area of the vacated land of the Westerly runway into commercial lease parcels. To consider this the overall drainage system, the Northerly runway needed to be evaluated with a proposed connection under I-95 to County owned property on the West side of I-95. KEITH performed hydraulic calculations, considered viable options in construction of such an interconnection and developed a detailed report with cost estimates of the various options to route and manage the existing and proposed storm-water run-off. | | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| e. | Airport Expansion Program Water and Sewer Force Main Relocation/Up-grades at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2013 | CONSTRUCTION (If applicable) 2016 |
| (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE With the planning of runway South Runway 10R-28L, it was necessary to relocate/up-grade the airports transmission water mains and sewer force mains that conflicted with the new improvements. This included the design, permitting and construction administration of eight separate design packages that totaled over 19,000 ft of new water main and force main transmission lines that serve the airport. It was also necessary to prepare four separate demolition design packages for the removal of the existing lines. Mr. Lazowick assisted in the calculation of these permit applications and the certification packages expeditiously with the agencies and kept BCAD/ PMO informed of the progress of these completions throughout the term of these projects. | | <input checked="" type="checkbox"/> Check if project performed with current firm | |

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | |
|---------------------------------------|--|-----------------------|----------------------------------|
| 12. NAME Lee Powers, P.S.M. | 13. ROLE IN THIS CONTRACT Project Surveyor/GIS Specialist | 14. YEARS EXPERIENCE | |
| | | a. TOTAL 13 | b. WITH CURRENT FIRM 9 |

15. FIRM NAME AND LOCATION (City and State)

Keith and Associates, Inc., Pompano Beach, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)

BS Land Surveying & Geomatics Engineering, Purdue University, 2005

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Florida Professional Surveyor & Mapper, #6805

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Florida Society of Professional Surveyors & Mappers, BIM Smart Foundation, Member, BuildingSMART Foundation Member. Certifications: Transportation Worker Identification Credential (TWIC), FDOT Maintenance of Traffic

19. RELEVANT PROJECTS

| (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|---|--|--|
| Taxiway Foxtrot Relocation at Fort Lauderdale Executive Airport (FXE) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates (KEITH), is currently serving as a subconsultant to Kimley-Horn for the relocation of Taxiway Foxtrot between taxiways Sierra and Gold from its current 305-foot distance from the runway to 400-feet north of the runway at FXE. The design of this project includes the demolition of the existing taxiway, construction of new taxiway and reconstruction of the taxiway intersections, relocation of airfield guidance signs and taxiway edge lights, and paving striping. Mr. Powers is providing design surveys of the area around the existing taxiway | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| Conceptual Design Survey at Fort Lauderdale Executive Airport (FXE) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) N/A |
| b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As subconsultant to Kimley-Horn, KEITH is currently providing surveying services for a conceptual design phase of the airport and adjoining City-owned parcels of land (east of 31 st Ave in Fort Lauderdale). The survey will show major features such as roadways, runways, taxiways, buildings, etc. and will not show small features such as utilities, lights, striping. Mr. Powers is providing design surveys of the entire airport | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| Utility Atlas Updates for Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) N/A |
| c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Powers serves as the Project Surveyor for this extensive 550 + acres project consisting of engineering design surveys, establishing geodetic and vertical control, drainage as-builts, subsurface utility engineering and aerial photography survey support. The utility atlas is an on-going effort compiling years of historic as-built and record drawing information as well as current surface and subsurface utility infrastructure. New information from on-going construction projects throughout the airport is being added to the atlas and made available to the airport's consultants and sub-consultants to assist in their design needs. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| GIS Services for Broward County Aviation Department (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) N/A |
| d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a subconsultant, Keith and Associates is responsible for CAD-to-GIS data conversion, CAD data submittal standards and FAA airport GIS support. Data entries and updates are carried out as per FAA AC 150/5300-18B and subsequent updates are submitted through the FAA's Airport Geographical Information System (AGIS) online portal. As a result of the team's work, all BCAD departments have accesses to different online portals relevant to their work descriptions. With every BCAD asset being updated with the appropriate object data, BCAD Maintenance is already seeing a huge time and budget savings. In addition the Planning and Capital Improvements Departments can quickly use utility, parcel, terminal, gate stands and other load information to help quickly plan and layout projects. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| Space Coast Regional Airport Runway Improvements (Titusville, Florida) | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) N/A |
| e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE KEITH, as a subconsultant partner to Michael Baker International, provided surveying services for the rehabilitation of the runway ends including the taxiways and aprons, replacement and upgrading of the runway/taxiway lighting system. KEITH conducted a Topographic Survey within the proposed limits of the site in support of this runway improvement project and provided a design survey of the area around the existing runway ends. Mr. Powers provided design survey of the runway ends for this runway rehabilitation project that included detailed elevation model and existing airport striping, signage and lighting inventory. | <input checked="" type="checkbox"/> Check if project performed with current firm | |

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | |
|---|---|---|--|-----------------------|----------------------------------|
| 12. NAME Daniel Checchia | 13. ROLE IN THIS CONTRACT Subsurface Utility Engineering and Utility Coordination Manager | 14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">a. TOTAL 21</td> <td style="width: 50%; text-align: center;">b. WITH CURRENT FIRM 7</td> </tr> </table> | | a. TOTAL 21 | b. WITH CURRENT FIRM 7 |
| a. TOTAL 21 | b. WITH CURRENT FIRM 7 | | | | |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) AS Applied Science in Construction Technology, Suffolk Community College, 2008 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDOT Maintenance of Traffic, Transportation & Expressway Authority Membership of Florid (TEAMFL), Florida Utility Coordination Committee (FUCC) | | | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|---|-----------------------|------------------------------|
| a. | Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) |
| | | On-going | On-going |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Keith and Associates (KEITH) is the prime consultant providing professional services for the design, engineering and resident project representative (RPR) services during construction for miscellaneous airport utility and pavement projects which include construction, rehabilitations and renovation activities. Mr. Checchia is responsible for overseeing the designation, locating, collection and depiction of all existing utilities during this continuing contract for all projects requiring Subsurface Utility Engineering services. | | |
| b. | Westside Development Utility Certification Project at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) |
| | | 2013 | 2014 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Checchia, as Senior Project Manager, was tasked with providing the providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant to RS&H for the Westside Development Utility Certification project. Mr. Checchia directed multiple crews to identify existing utilities though designation and location to certify utilities. Utilities were designated, mapped and labeled in accordance with the ASCE 38-02 guide lines. | | |
| c. | South Runway 10R/28L Expansion Lead Design Team at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) |
| | | 2015 | 2016 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Checchia, as SUE Project Manager, was tasked with providing the ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant to Atkins for the South Runway 10R/28L Expansion Lead Design Team. Mr. Checchia was responsible for designating and locating of existing utilities for the design of the new south runway. Multiple crews performed tasks associated with the identification, verification and delineation of utilities. Utilities were designated, mapped and labeled in accordance with the ASCE 38-02 guide lines. | | |
| d. | Utility Atlas Update Phase 1 & II for South Runway Expansion of 10R/28L at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) |
| | | 2013 | 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Checchia, as Senior Project Manager, was tasked with providing the providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant to RS&H for Phase I & II Utility Atlas Update for the south runway expansion. All work and deliverables were performed in accordance with Airport Circulars 150/5300-18B General Guidance and Specifications for Aeronautical Surveys. Mr. Checchia was responsible for overseeing the designation, collection and depiction of all existing utility infrastructure to create the FLL utility atlas. Utilities were designated, mapped and labeled in accordance with the ASCE 38-02 guide lines. | | |
| e. | Palm Beach International Airport (PBI) GPR for Utility Clearance (West Palm Beach, Florida) | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) |
| | | 2015 | N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH provided Quality Level B (Designation) services identifying 11 locations in the northwest portion of the airport. KEITH designated toneable and non-toneable underground utilities to facilitate their removal and allow for drilling by PSI for execution of their scope. Mr. Checchia was responsible for project oversight, as well as ensuring deliverables were provided to the client. | | |

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | |
|---|---|--|--|------------------------------|---|
| 12. NAME Jonathan P. Weymouth, P.E. | 13. ROLE IN THIS CONTRACT Senior Construction Engineering Manager | 14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-right: 1px solid black; text-align: center;"> a. TOTAL 28 </td> <td style="width: 50%; text-align: center;"> b. WITH CURRENT FIRM 7 </td> </tr> </table> | | a. TOTAL 28 | b. WITH CURRENT FIRM 7 |
| a. TOTAL 28 | b. WITH CURRENT FIRM 7 | | | | |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. in Architectural Engineering, University of Miami, 1990 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) State of Florida Professional Engineer #52802 | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) OSHA 10-Hour Safety Certification | | | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|---|-----------------------------------|--|
| | Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| a. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates (KEITH) is the prime consultant providing professional services for the design, engineering and resident project representative (RPR) services during construction for miscellaneous airport utility and pavement projects which include construction, rehabilitations and renovation activities. Mr. Weymouth is serving as the Lead Construction Manager throughout the entire lifecycle of this continuing contract, responsible for overseeing all construction management aspects of the project. <div style="text-align: right;"> <input checked="" type="checkbox"/> Check if project performed with current firm </div> | | |
| | South Runway 10R/28L Expansion Lead Design Team at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2013 | CONSTRUCTION (If applicable) 2016 |
| b. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Weymouth served as Resident Lead Design Representative (RLDR) for the Lead Design Team as a subconsultant partner to Atkins for the design and construction of the new 8,000-foot South Runway 10R/28L, parallel Taxiway J and Crossfield Taxiways. Mr. Weymouth's duties and responsibilities included field observation during the construction, provided weekly observation reports to the Owner which addressed opinions of the construction conformance to the plans and specifications, facilitated the reviews of the shop drawings, Contractor's Requests for Information (RFI), assisted in the development Supplement Information (SI) to the Contractor, reviewed Contractor as-built plans to determine general adequacy in documenting field changes and assisted each Engineer-of-Record with the final Record Drawings. <div style="text-align: right;"> <input checked="" type="checkbox"/> Check if project performed with current firm </div> | | |
| | Taxiway C and Westside Infrastructure Improvements at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2008 | CONSTRUCTION (If applicable) 2008 |
| c. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Weymouth served as key technical support engineer for the permitting, construction management and close-out for the new 4,500-foot Taxiway C and connectors and Westside major utilities improvement project. The infrastructure improvements included the new FAA duct bank and re-alignment of Perimeter Road. <div style="text-align: right;"> <input type="checkbox"/> Check if project performed with current firm </div> | | |
| | Exit Roadways (Task III) Project at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2008 | CONSTRUCTION (If applicable) 2008 |
| d. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Weymouth served as Design Project Manager for the Exit Roadways project involving the design and construction of the third phase of the upper and lower level roadway system. This project connects the eastern end of the upper and lower level roadways in front of Terminal 4 and directs traffic east to the Task 2 roadways leaving the airport. <div style="text-align: right;"> <input type="checkbox"/> Check if project performed with current firm </div> | | |
| | Fort Lauderdale-Hollywood International Airport (FLL) Concourse A and Apron Project (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2008 | CONSTRUCTION (If applicable) 2008 |
| e. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Weymouth served as Design Project Manager for BCAD's 250,000 square foot design of terminal apron with hydrant fueling system and taxiways project. This project originally included a 5 gate concourse totaling 121,000 square feet with a 705 linear foot connector to Terminal 1 and associated utilities. <div style="text-align: right;"> <input type="checkbox"/> Check if project performed with current firm </div> | | |

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | | | |
|---|--|--|--|----------|----------------------|-----------|-----------|
| 12. NAME Morris J. Smith Jr. | 13. ROLE IN THIS CONTRACT RPR Inspector | 14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="border: none; text-align: center;">21</td> <td style="border: none; text-align: center;">15</td> </tr> </table> | | a. TOTAL | b. WITH CURRENT FIRM | 21 | 15 |
| a. TOTAL | b. WITH CURRENT FIRM | | | | | | |
| 21 | 15 | | | | | | |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida | | | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Business Administration, Florida Memorial College | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | | | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDOT CTQP Asphalt Paving Technician Level 1, Earthwork Construction Inspection, Level 1, Concrete Field Technician Level 1, ACI Concrete Field Testing Technician Grade I and Troxler Nuclear Gauge. FDOT Maintenance of Traffic Intermediate Level, OSHA 10-Hour Safety Certification | | | | | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|--|-----------------------------------|--|
| | Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| a. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates (KEITH) is the prime consultant providing professional services for the design, engineering and resident project representative (RPR) services during construction for miscellaneous airport utility and pavement projects which include construction, rehabilitations and renovation activities. Mr. Smith is serving as the RPR Inspector throughout the entire lifecycle of this continuing contract, responsible for overseeing all construction inspection aspects of the project. <div style="text-align: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</div> | | |
| | Terminal 4 Expansion for the Airport Expansion Program III (AEP3) at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| b. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Smith served as a Senior Construction Inspector under our subconsultant agreement with the program management prime consultant Turner for this on-going project. Mr. Smith performed inspections on the new concrete apron and Taxiway T to facilitate 14 new gates, inspections including airfield lighting system, asphalt paving, concrete paving, drainage, sanitary sewer, force main and lift station installations and pavement markings. <div style="text-align: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</div> | | |
| | Taxiway C West Reconstruction Project at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2013 | CONSTRUCTION (If applicable) 2013 |
| c. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Smith served as Senior Construction Inspector for this Taxiway C West reconstruction project approximately 2,600 feet long, from Taxiway Delta to the west end of 9-Left, which includes asphalt, earthwork, lighting, signage pavement markings, and drainage. Mr. Smith provided all CEI services checking material and installation observations, determination of quantities, compliance with specifications & coordination with contractor personnel. <div style="text-align: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</div> | | |
| | North Runway 10L/28R Airfield Modifications/High-Speed Exits at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2011 | CONSTRUCTION (If applicable) 2011 |
| d. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Smith served as Senior Construction Inspector for this project that involved several critical construction projects and installation of several safety enhancement features including: constructing high speed runway exits which will enhance the safety and capacity of the Airport; Installing Runway Status Lights to advise pilots of potential runway conflicts; Widening of taxiways at the east end of the runway; and Relocating Navigational Aids. The work was accelerated by the Broward County Aviation Department and the construction was completed in 13 days early. <div style="text-align: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</div> | | |
| | Taxiway C and C2 Interconnector at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2011 | CONSTRUCTION (If applicable) 2012 |
| e. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Smith served as Senior Construction Inspector for this project which included construction work related services for extending Taxiway C and C2 East End – Phase II and Repackaged Airfield Enhancements. Mr. Smith provided all CEI services checking material and installation observations, determination of quantities, compliance with specifications & coordination with contractor personnel. <div style="text-align: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</div> | | |

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | |
|---|---|--|--|-----------------------|--------------------------------------|
| 12. NAME Paul Weinberg, P.L.A., ASLA | 13. ROLE IN THIS CONTRACT Landscape Architect | 14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL 18</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM <1</td> </tr> </table> | | a. TOTAL 18 | b. WITH CURRENT FIRM <1 |
| a. TOTAL 18 | b. WITH CURRENT FIRM <1 | | | | |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Landscape Architecture, Michigan State University, 2000 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Landscape Architect, State of Florida, #6666804 (2005) | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Council of Landscape Architecture Registration Boards (CLARB Certified); American Society of Landscape Architects (ASLA), Member; Urban Land Institute, Member; American Resort Development Association (ARDA), Member; CRA Work (North Miami, Deerfield, Fort Lauderdale, Riviera Beach, Pompano Beach); Streetscapes (Hillsboro, A1A, Sunrise, Nob Hill, Las Olas) | | | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|---|-----------------------------------|--|
| a. | Terminal 1 Modernization Concourse A at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) 2017 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates (KEITH) as a subconsultant partner to CORGAN Aviation, provided Civil Engineering, Landscape Architecture, Survey and Subsurface Utility Engineering (SUE) services for the modernization of Terminal 1, including centralized TSA checkpoint alterations, a new five gate Concourse A addition with a Federal Inspection Services (FIS) facility and other enabling projects. KEITH designed Landscape and Irrigation Plans for the multi-story ellipse and the 'Meet and Greet' area of the terminal. The landscape consists of Florida-friendly shrub beds with lush foliage and colorful accent plantings with a mix of slender Montgomery Palms between stately Royal Palms that enhance this eye-catching structure. Irrigation plans were designed to provide coverage for the landscape beds and turf areas surrounding the new terminal grounds. Additionally, KEITH provided bid assistance and responses to RFI's related to landscape and installation/construction observation service for quality and quantity control of plant species and design intent, as specified in plans. | | |
| | <input checked="" type="checkbox"/> Check if project performed with current firm | | |
| b. | Palm Beach International Airport Feature Signage and Landscape Design & Bidding Services (West Palm Beach, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE KEITH provided landscape architecture and planning services for the improvements to the perimeter and entrance signage appearance with landscaping, as well as additional signage upgrades surrounding the airport. KEITH's designers created two concepts for the main signage; one option represented a connection with PBIA's past and present, while the other option represented more elegance and sophistication matching the new PBI logo. | | |
| | <input checked="" type="checkbox"/> Check if project performed with current firm | | |
| c. | Plantation Fire Station #1 (Plantation, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) On-going |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE KEITH was responsible for the development of the site plan and is currently coordinating with the design architect to develop the Landscape and Civil Engineering for the project. Mr. Weinberg lead the team to develop the overall landscape and site plan development – coordinating with both existing and new landscape areas. The intention is to utilize xeriscape and low maintenance materials that will provide aesthetics as well as include CPTED principles for safety. | | |
| | <input checked="" type="checkbox"/> Check if project performed with current firm | | |
| d. | Lake Worth Beach Complex (Lake Worth, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Weinberg is leading the landscape architecture and planning design effort for the renovation of the city's beach complex. He is a key member of the overall design team responsible for developing conceptual designs that incorporate various aspects of the existing facility. | | |
| | <input checked="" type="checkbox"/> Check if project performed with current firm | | |
| e. | Jefferson Plaza Redevelopment (North Miami Beach, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates, as a subconsultant partner to Sontic Ward, is providing site/civil engineering, traffic engineering and landscape architecture for the proposed 19.5-acre Jefferson Plaza shopping center site located on the southside of NE 167 th Street (aka North Miami Beach Blvd) between NE 8 th Avenue and NE 10 th Avenue. Mr. Weinberg led a team of designers on this high-end office building. Careful attention was given to the selection and layout of this mostly native plant pallet. The team was responsible for hardscape, landscape, lighting, grading, signage and irrigation for the site. | | |
| | <input checked="" type="checkbox"/> Check if project performed with current firm | | |

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | |
|---|--|--|-----------------------------------|
| 12. NAME Michael J. Vonder Meulen, AICP | 13. ROLE IN THIS CONTRACT Senior Planner | 14. YEARS EXPERIENCE a. TOTAL 28 | b. WITH CURRENT FIRM 11 |
| 15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Urban Planning, University of Cincinnati, 1986 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) American Institute of Certified Planners, Washington D.C. | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Planning Association, Urban Land Institute, Urban Planner Representative for the City of Fort Lauderdale CRA Board, Editor- American Planning Association Section Newsletter (1994) | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|--|-----------------------------------|--------------------------------------|
| a. | Sheltair Parcel 16-C at Fort Lauderdale Executive Airport (FXE) (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Keith and Associates (KEITH) is responsible for providing planning, civil engineering design and permitting for landside and airside improvements for the proposed Sheltair Facility located on Parcel 16-C at FXE. Sheltair obtained a lease with the City of Fort Lauderdale to build a combination of office, hangar (with associated drive aisles), parking, aprons and site utilities at FXE. KEITH obtained FAA Approval for the filing of Notice of Proposed Construction (Form 7460-1 and Form 7460-2) for the proposed Sheltair Aviation hangar. KEITH developed two airspace plans outlining the building, crane placement and crane operational limits, and displayed architectural building elevations for height information correlated to mapped points on the airspace plans. | | |
| b. | Fort Lauderdale-Hollywood International Airport (FLL) Master Plan (Pompano Beach, Florida) | PROFESSIONAL SERVICES 2009 | CONSTRUCTION (If applicable) N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH prepared a draft Comprehensive Plan Amendments for the Comprehensive Plan of Broward County, City of Fort Lauderdale, City of Hollywood and City of Dania Beach for consistency with Florida State Statutes and the FLL Airport Master Plan. Requirements included reviewing all existing goals, objectives and policies of each Comprehensive Plan and preparing draft amendments to address; including references to the FLL Airport Master Plan and address and deficiencies with the existing Comprehensive Plans. | | |
| c. | Broward County Convention Center Master Plan Study (Fort Lauderdale, Florida) | PROFESSIONAL SERVICES 2014 | CONSTRUCTION (If applicable) 2014 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH served as a subconsultant partner to HKS Architects, providing local experience, knowledge of critical issues and contacts through our survey, planning, conceptual civil and conceptual landscaping services to help develop the master plan for the Broward County Convention Center. Planning services provided by Mr. Vonder Meulen included tasks such as: project/site history; entitlement/agreements analysis; DRI analysis; land use analysis; zoning analysis; parking analysis; visioning assistance; development/entitlement schedule and other regulatory analysis services. Working with the County and other stakeholders, including analysis, feasibility and conceptual design phases, a final master plan report was authored by the team and presented to the County Commission May 2014. | | |
| d. | Parkland Comprehensive Master Plan for "The Wedge" (Parkland, Florida) | PROFESSIONAL SERVICES 2011 | CONSTRUCTION (If applicable) 2011 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vonder Meulen served as the Senior Planner responsible for this master planning endeavor. The Master plan area consists of 1,949 acre wedge shaped property located between County Line Road and Loxahatchee Road from Palm Beach County to Broward County. It was imperative to identify the future development characteristics and the impacts to the City of Parkland and North Springs Improvement District (NSID) whom will be providing services to these future developments in these annexation areas. The plan was developed through an analysis of existing conditions, an analysis of Level of Service Standards, Meetings Property Stakeholders, and Agencies having jurisdiction. | | |
| e. | John Knox Village LAC Comprehensive Plan Amendment (Pompano Beach, Florida) | PROFESSIONAL SERVICES 2011 | CONSTRUCTION (If applicable) 2011 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH obtained approval of a Local Activity Center (LAC) land use plan amendment for this 64-acre retirement community in the City of Pompano Beach. This facility was the first private sector petitioned (single owner) LAC approved in Broward County. Since the approval of the plan amendment, KEITH also assisted in the rezoning and platting of the property. | | |

STANDARD FORM 330

| E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT (Complete one Section E for each key person.) | | | |
|---|--------------------------|---|----------------------|
| 12. NAME | 13. ROLE IN THIS PROJECT | 14. YEARS EXPERIENCE | |
| JOHN CARRIGAN PE, LEED AP+ | STRUCTURAL ENGINEER | a. TOTAL | b. WITH CURRENT FIRM |
| | | 19 | 19 |
| 15. FIRM NAME AND LOCATION (City and State) | | | |
| RS&H, Inc. Fort Lauderdale, Florida | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | |
| Bachelor of Civil Engineering/Civil Engineering | | Professional Engineer: FL, AZ, GA, MI Professional Structural Engineer: IL, UT LEED® AP Building, Design and Construction, U.S. Green Building Council, 2010 LEED® Accredited Professional, U.S. Green Building Council, 2008 Certified, OSHA Construction Safety and Health, United States Occupational Safety and Health Administration, 2005 | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) | | | |
| Mr. Carrigan's entire career has been focused on aviation consulting services. He has extensive experience as a Structural Engineer on a variety of airport facilities projects, including airport terminal expansions, fire fighting rescue facilities, corporate hangar facilities, aesthetic roadway canopies, multistory parking garages, airfield drainage structures, and structural investigations and repairs at airports nationwide. | | | |

| 19. RELEVANT PROJECTS | | | |
|---|--|--|------------------------------|
| a. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | NEW TERMINAL PROJECT General Wayne A. Downing Peoria International Airport, Illinois | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2011 | 2011 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| Structural Design Quality Assurance Leader. A new 118,000-square-foot terminal on a site within the existing Airport property. Scope of work includes a new terminal building, security system upgrades, access control, revenue control system and structure with landside and airside development, Consolidated Rental Agency Complex (CONRAC) relocation and existing terminal redevelopment. Performed quality assurance and quality control reviews for all structural engineering design deliverables. | | | |
| b. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | TERMINAL AIRSIDE EXPANSION Bishop International Airport, Flint, Michigan | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2012 | 2012 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| Structural Engineer of Record. The project was a multi-package delivery of a nearly \$20 Million expansion and renovation program to the existing concourse and passenger screening checkpoint, adding over 50,000 square feet and four gates to the existing terminal facility. The program involved extensive planning, phasing and sequencing to maintain terminal operations. | | | |
| c. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | GENERAL CONSULTING SERVICES Broward County Aviation Department, Fort Lauderdale, Florida | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | Ongoing | Ongoing |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| Project Manager. With RS&H in a sub role with direct client contact, this contract includes an assortment of engineering, architectural, planning and environmental-related services at FLL and North Perry Airport. Consisted primarily of the development of construction documents (from the planning stage to bid and award) for various projects with follow-on construction administration services. Included studies, engineering reports with CIP forecasts, permitting and analyses for various magnitudes and complexities. | | | |
| d. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | CONCOURSE REPLACEMENT Jacksonville International Airport, Jacksonville, Florida | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2005 | 2010 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| Structural Engineer. Structural design for a 270,000-square-foot, dual-concourse replacement, including full construction administration. | | | |
| e. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | NEW AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) STATION Lynchburg Regional Airport, Lynchburg Virginia | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2008 | 2009 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| Structural Engineering. The project involved structural design and coordination for a new, two-story, two-bay ARFF Station adjacent to the terminal. | | | |

| E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT (Complete one Section E for each key person.) | | | |
|--|---|---|--|
| 12. NAME | | 13. ROLE IN THIS PROJECT | |
| MARK WILCER AIA | | ARCHITECT | |
| | | 14. YEARS EXPERIENCE | |
| | | a. TOTAL | b. WITH CURRENT FIRM |
| | | 39 | 17 |
| 15. FIRM NAME AND LOCATION (City and State) | | | |
| RS&H, Inc. Chicago, Illinois | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | |
| Bachelor of Architecture, University of Illinois, 1979 | | Registered Architect: IL, IA, MI, MN, TX, WI | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) | | | |
| Mr. Wilcer has extensive experience with architectural design of aviation facilities, FAA requirements, procedures, and personnel. He has more than 36 years of experience in providing design, management, and construction administration services for public and private projects. He has extensive experience in coordinating multi-firm design teams for major design assignments. Mr. Wilcer maintains an excellent relationship with FAA staff and is actively sought for architectural design oversight across RS&H's Aviation Practice. | | | |
| 19. RELEVANT PROJECTS | | | |
| a. | (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED |
| | NEW AIRCRAFT RESCUE AND FIRE FIGHTING FACILITY (ARFF) BUILDING Akron-Canton Airport, Ohio | | PROFESSIONAL SERVICES 2013 |
| | | | CONSTRUCTION (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| | | Project Manager and Architect. Project included the design of a new 36,000 sq. ft. ARFF building, parking lot, access roads, fuel farm, lighting, earthwork, grading and drainage improvements, fencing, roadside barrier, pavement markings and signage. | |
| b. | (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED |
| | MAINTENANCE FACILITY Indianapolis International Airport, Indianapolis, Indiana | | PROFESSIONAL SERVICES 2016 |
| | | | CONSTRUCTION (if applicable) N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| | | Project Manager. Project consists of the third phase of a planning study to develop a new maintenance complex and supporting facilities. | |
| c. | (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED |
| | FEDERAL INSPECTION FACILITY Newport News/Williamsburg International Airport, Newport News, Virginia | | PROFESSIONAL SERVICES 2013 |
| | | | CONSTRUCTION (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| | | Project Manager. Design a new 10,000-square-foot Federal Inspection Station facility for the DHS Customs-Border Protection (200 passengers per hour) in an existing area of the terminal. Work included coordination with multiple Federal Agencies, locally and nationally. | |
| d. | (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED |
| | NEW TERMINAL COMPLEX MBS International Airport, Freeland, Michigan | | PROFESSIONAL SERVICES 2010 |
| | | | CONSTRUCTION (if applicable) 2012 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| | | Project Manager. New 75,000-square-foot terminal on a Greenfield site within the existing Airport property. Scope of work includes a new terminal building, security system upgrades, access control, revenue control system and structure, landside, and airside development. A Categorical Exclusion for the terminal development, Section 106 for State Historic Preservation Officer review concurrence, was completed in support of the project. | |
| e. | (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED |
| | CORPORATE HANGAR DEVELOPMENT Midway International Airport, Chicago, Illinois | | PROFESSIONAL SERVICES 2005 |
| | | | CONSTRUCTION (if applicable) N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| | | Project Manager. Developed the overall design plan for expansion of an existing corporate charter service facility, including equipment storage facility, resignalization plan development, hangar, and support-facility expansion along with airside tenant lease space modifications designed to improve operations. | |
| f. | (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED |
| | TAXIWAY, APRON, EMPLOYEE PARKING, READY RENTAL, AND PASSENGER PARKING FACILITY WITH REVENUE CONTROL FACILITY MBS International Airport, Freeland, Michigan | | PROFESSIONAL SERVICES 2014 |
| | | | CONSTRUCTION (if applicable) 2016 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| | | Project Director. Coordinated development to assure aircraft parking configurations, passenger, staff, and rental fleet parking areas met client needs. Also provided lease space modifications designed to improve operations. | |

| E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT (Complete one Section E for each key person.) | | | |
|---|--|---|--|
| 12. NAME | 13. ROLE IN THIS PROJECT | 14. YEARS EXPERIENCE | |
| KEITH NIX PE, LEED AP+ | MECHANICAL AND PLUMBING ENGINEER | a. TOTAL | b. WITH CURRENT FIRM |
| | | 22 | 7 |
| 15. FIRM NAME AND LOCATION (City and State) | | | |
| RS&H, Inc. Jacksonville, Florida | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | |
| Bachelor of Science/Mechanical Engineering | | Professional Engineer: FL, AL, AR, AZ, CA, CO, GA, IA, IL, KY, MN, MO, MS, NC, ND, NJ, NY, OH, OR, SC, TN, TX, UT, VA; US / NCEES | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) | | | |
| Mr. Nix has been responsible for the mechanical design of various projects including aviation terminals, baggage systems, FBO renovations, CBP facilities, and fire stations. He has served as the Project Manager, Lead Mechanical Engineer, and Commissioning Authority on numerous projects for various aviation clients. | | | |
| 19. RELEVANT PROJECTS | | | |
| a. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | TERMINAL IMPROVEMENTS Greenville/Spartanburg International Airport, Greer, South Carolina | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2013 | 2015 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Mechanical Engineer-of-Record. Project includes a multi-packaged renovation to the existing main terminal and concourses. The main terminal dining, screening, ticketing, and baggage claim areas are completely replaced. The project involves extensive phasing coordination and replacement of nearly all mechanical and plumbing systems; sustainability systems focused on solar water heating and rainwater harvesting. | | | |
| b. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | TERMINAL A RENOVATIONS San Antonio International Airport, San Antonio, Texas | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2014 | 2014 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Mechanical Engineer. Involves the renovation of a 406,000-square-foot passenger terminal and 17-gate concourse. Modernization of the facility involves building systems replacement, operational restructuring of TSA passenger checkpoint, concessions, baggage claim/ticketing, and upgrade of architectural finishes throughout. Also includes vertical transportation replacement and renovations to CPB/FIS. | | | |
| c. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | NEW TERMINAL, ALBERT J. ELLIS AIRPORT Jacksonville, North Carolina | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2014 | 2015 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Mechanical Engineer-of-Record. Project includes a new 66,000-square-foot terminal and concourse. Terminal design includes one ground loading and three contact gates and operation capability for three airlines. Landside improvements include existing access loop road realignment, new rental car and employee parking, and utilizes existing parking. Airside improvements include new aircraft apron for four parking positions and a new taxilane. | | | |
| d. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | RECLAIMED WATER SYSTEM EXPANSION Tampa International Airport, Tampa, Florida | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2013 | 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Mechanical Engineer. Project consisted of the extension and expansion of the reclaimed water system on-site to serve existing central cooling tower plants. | | | |
| e. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | LANDMARK FBO INTERIOR RENOVATIONS Tampa International Airport, Tampa, Florida | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2013 | 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Mechanical Engineer-of-Record. Project included interior renovations and mechanical system renovations including chiller replacement and upgrade of building HVAC control systems. Project is pursuing LEED-CI certification. | | | |

| E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT (Complete one Section E for each key person.) | | | |
|--|--------------------------|--|----------------------|
| 12. NAME | 13. ROLE IN THIS PROJECT | 14. YEARS EXPERIENCE | |
| MIKE STRICKLER ^{PE} | AIRFIELD CIVIL ENGINEER | a. TOTAL | b. WITH CURRENT FIRM |
| | | 13 | 12 |
| 15. FIRM NAME AND LOCATION (City and State) | | | |
| RS&H, Inc. Fort Lauderdale, Florida | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | |
| Bachelor of Science / Civil Engineering | | Professional Engineer: FL | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) | | | |
| Mr. Strickler has aviation-focused design and construction experience providing project engineering services on a variety of projects which encompass all aspects of engineering design and construction administration. His responsibilities consist of extensive airfield project design and development including all aspects of grading, drainage, geometry and pavement design, as well performing construction inspection and management on numerous airfield projects of all types. | | | |

| 19. RELEVANT PROJECTS | | | |
|---|--|-----------------------|--|
| a. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | CONCOURSE E AIRSIDE IMPROVEMENTS, E SATELLITE APRON MODIFICATIONS, PAVEMENT REPAIR AND MARKINGS PACKAGE AND PASSENGER BOARDING BRIDGE INSTALLATION <i>Miami International Airport, Miami, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2016 | 2017 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Project Engineer. Project consisted of the relocation of sections of fuel line, reconstruction of aircraft gate parking aprons and installation of passenger boarding bridges. Duties consisted of oversight of inspection companies for separate portions of the construction project, inspection of electrical item construction, and inspection of boarding bridge installation. | | | |
| b. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | RUNWAY 10R-28L EXPANSION, CROSSFIELD TAXIWAYS AND HOLDPAD PAVING, LIGHTING AND SIGNAGE <i>Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | Ongoing | Ongoing |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Project Engineer. Project consisted of the installation of the pavements and electrical systems for the construction of Runway 10R-28L. Duties consisted of processing and reviewing contractor submittals, site visits to review quality acceptance, and development of Supplemental Information for the contractor. | | | |
| c. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | TAXIWAY C WEST AND SOUTH APRON RECONSTRUCTION <i>Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2011 | 2014 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Project Engineer/Lead Resident Project Representative. Project consisted of the reconstruction of the structural pavement of the west end of the Taxiway C, which was due to pavement failures. Duties consisted of managing inspection of all construction activities, review of contractor submittals, coordination of acceptance testing, and providing coordination between the contractor and the staff from the various Airport entities. | | | |
| d. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | EAST GENERAL AVIATION APRON RELOCATION <i>Brunswick Golden Isles Airport, Brunswick, Georgia</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2017 | Ongoing |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Project Engineer. Project consisted of a substantial expansion of the existing concrete apron for hangar expansion along with associated connecting taxiways and vehicle parking areas. Duties consisted of development of a full project design from initial concept to final bid package, coordination with multiple offices for separate disciplines within the project design, and development of bid addenda. | | | |
| e. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | RUNWAY 17-35 RECONSTRUCTION <i>Pensacola Regional Airport, Pensacola, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2006 | 2008 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| Engineering Inspector. Reconstruction of an existing 7,000-foot concrete air carrier runway including the active 17-35/8-26 Runway intersection and three associated concrete taxiways. Construction inspection duties were performed for concrete placement, asphalt paving, drainage pipe and structure placement, grading, airfield lighting installation, and grassing operations. | | | |

| E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT (Complete one Section E for each key person.) | | | |
|---|--------------------------|--|----------------------|
| 12. NAME | 13. ROLE IN THIS PROJECT | 14. YEARS EXPERIENCE | |
| BOB OVERBY PE, LEED AP BD+C | GRANT SUPPORT | a. TOTAL | b. WITH CURRENT FIRM |
| | | 21 | 21 |
| 15. FIRM NAME AND LOCATION (City and State) | | | |
| RS&H, Inc. Jacksonville, Florida | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | |
| Master of Science in Civil Engineering, Michigan State University Bachelor of Science in Civil Engineering, Michigan State University | | Professional Engineer: FL, GA, NC, SC | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) | | | |
| Mr. Overby is a Senior Aviation Engineer and Project Manager with more than 21 years of dedicated aviation experience. His career encompasses planning, design, project management, and oversight of airside civil engineering projects. As a client manager for airports throughout Florida, Mr. Overby has assisted with numerous FAA Pre-Applications and Grant Applications. Additionally, when requested, Mr. Overby has attended capital programming meetings with airport clients, FDOT, and FAA representatives. Mr. Overby's experience has been focused on airports throughout the southeast. | | | |

| 19. RELEVANT PROJECTS | | | |
|-----------------------|--|-----------------------|--|
| a. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | RUNWAY 17-35 RECONSTRUCTION <i>Pensacola Regional Airport, Pensacola, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2006 | 2008 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| b. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | RUNWAY 9-27 RECONSTRUCTION <i>Tallahassee International Airport, Tallahassee, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2011 | 2014 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| c. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | TAXIWAY N RECONSTRUCTION <i>Daytona Beach International Airport, Daytona, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2014 | Ongoing |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| d. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | RUNWAY 18-36 REHABILITATION <i>Ocala International Airport, Ocala, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2008 | 2009 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |
| e. | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | RUNWAY 8-26 REHABILITATION <i>Ocala International Airport, Ocala, Florida</i> | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2013 | 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE | | <input checked="" type="checkbox"/> Check if project performed with current firm |

| E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) | | | |
|--|--|--|------------------------------|
| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
| James Kappes, P.E. | Project Engineer | a. TOTAL 12 | b. WITH CURRENT FIRM 12 |
| 15. FIRM NAME AND LOCATION (City and State) Hillers Electrical Engineering, Boca Raton, FL. | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) BSEE/2005/Electrical Engineering | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL/#71499 | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) James Kappes, P.E. brings to this project over 12 years of electrical design and project management experience on major air carrier aviation airport runways, taxiways and apron edge lighting systems, instrumentation landing systems, airfield electrical vaults, water and wastewater facilities, water management pumping stations, lift stations, state-of-the-art distributed control systems, DOT expressways, interchanges, value engineering, energy audits, cost estimates, testing, startups, lighting systems, security systems, fire alarm system, low and medium voltage distribution systems, normal and stand-by generation, short circuit calculations, fault current calculations, protective device coordination, arc flash analysis, and power, control, instrumentation for facilities in the U.S. and internationally. | | | |
| 19. RELEVANT PROJECTS | | | |
| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
| | | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| a. | FLL WP-304/305 Runway, Crossfield Taxiways & Holdpad Paving, Lighting and Signage, Ft. Lauderdale International Airport, Ft. Lauderdale, FL | 2013 | 2016 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Designed for new Runway 9R-27L (8,000 ft.), (6) taxiways and (19) connectors electrical & lighting systems, included (250) in pavement lighting fixtures and (700) elevated lighting fixtures, guidance signage, (2) FAA MALSF systems, airfield lighting vault electrical and airfield lighting computer control monitoring system modifications, (2) BCAD PAPI systems, (3) wind cones, and power and control distribution ductbank systems for (6) FAA NAVAIDS systems. Providing construction administrative services. Estimated construction budget: \$13.8M. David Roepnack – BCAD Project Manager | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| b. | Palm Beach County Glades Airport Airfield Electrical Improvement, Palm Beach International Airport, West Palm Beach, FL | 2012 | 2014 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Designed 4,100 Ft. runway and parallel taxiway edge lighting system, guidance signage, (2) REIL Systems, (2) two-box PAPI systems, airport lighted beacon and tower, apron lighting system, airfield electrical vault building, and airfield vault electrical distribution systems. Provided construction services. Electrical construction cost: \$1.5M. Project completed 2014. Cindy Portnoy – PBIA Project Manager. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| c. | PBIA Runway 10L-28R Pavement Rehabilitation, Palm Beach International Airport, West Palm Beach, FL | 2012 | 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Designed for Runway 10L-28R (10,000 ft.), (22) taxiway connectors electrical & lighting systems, (300) in pavement lighting fixtures, guidance signage, FAA MALSR system, airfield lighting vault electrical and airfield lighting computer control monitoring system modifications, (8) runway guard lighting bar systems and (3) LAHSO systems. Provided construction administrative services. Electrical construction cost: \$3M. Project completed 2013. Cindy Portnoy – PBIA Project Manager. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| d. | Palm Beach County Department of Airports - Runway 10R-28L Rehabilitation, West Palm Beach, FL | 2015 | 2017 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Designed new taxiway edge lighting system, new mandatory & guidance signage systems, new elevated guard lights, conductors & conduit systems, modifications to existing airfield lighting control system. Provided full construction services. Electrical construction cost: \$500K. Project completed 2017. Cindy Portnoy – PBIA Project Manager. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| e. | Palm Beach County Department of Airports - Taxiway A Rehabilitation, West Palm Beach, FL | 2014 | 2017 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Designed new taxiway edge lighting system, new mandatory & guidance signage systems, conductors & conduit systems, modifications to existing airfield lighting control system. Provided full construction services. Electrical construction cost: \$600K. Project completed 2017. Cindy Portnoy – PBIA Project Manager. | <input checked="" type="checkbox"/> Check if project performed with current firm | |

STANDARD FORM 330 (6/2004)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | |
|--|--|-----------------------|-----------------------------------|
| 12. NAME Amy Champagne Baker, P.E. | 13. ROLE IN THIS CONTRACT Project Engineer | 14. YEARS EXPERIENCE | |
| | | a. TOTAL 21 | b. WITH CURRENT FIRM 21 |

15. FIRM NAME AND LOCATION (City and State)
Hillers Electrical Engineering, Boca Raton, FL.

| | |
|--|--|
| 16. EDUCATION (DEGREE AND SPECIALIZATION) BSEE/1997/Electrical Engineering | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL/#73735 CT #27854 |
|--|--|

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Amy Champagne Baker Project Engineer, brings to this project over 21 years of electrical design and project management experience on major air carrier aviation airport runways, taxiways and apron edge lighting systems, instrumentation landing systems, airfield electrical vaults water and wastewater facilities, water management pumping stations, structures, lift stations, state-of-the-art distributed control systems, DOT expressways, interchanges, toll plazas, toll collection, bridges implementation of commercial – industrial load control program systems for large industrial power users, value engineering, energy audits, cost estimates, testing, startups, lighting systems, security systems, low and medium voltage distribution systems, normal and stand-by generation for facilities in the U.S. and internationally.

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|--|--|------------------------------|
| | | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| a. | PBIA Rehabilitation of Taxiway C, Palm Beach International Airport, West Palm Beach, Florida | 2015 | On-going |
| | Designed for Taxiway Systems (10,000 ft.), taxiway connectors electrical & lighting systems, LED lighting fixtures, guidance signage, RGL system, airfield lighting vault electrical and airfield lighting computer control monitoring system modifications. Provided construction administrative services. Electrical construction cost: \$1.1M. Project ongoing. Cindy Portnoy – PBIA Project Manager. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| b. | PBIA Taxiway Alpha Rehabilitation, Palm Beach International Airport, West Palm Beach, Florida | 2015 | 2017 |
| | Designed for Taxiway Systems (3,000 ft.), taxiway connectors electrical & lighting systems, LED lighting fixtures, guidance signage, non-taxi islands, airfield lighting vault electrical and airfield lighting computer control monitoring system modifications. Provided construction administrative services. Electrical construction cost: \$850K. Project completed 2017. Cindy Portnoy – PBIA Project Manager. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| c. | PBIA Construct Taxiway W, Palm Beach International Airport, West Palm Beach, FL | 2015 | 2016 |
| | Designed for Taxiway Systems (4,000 ft.), taxiway connectors electrical & lighting systems, LED lighting fixtures, guidance signage, airfield lighting vault electrical and airfield lighting computer control monitoring system modifications. Provided construction administrative services. Electrical construction cost: \$500KM. Project completed 2016. Cindy Portnoy – PBIA Project Manager. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| d. | Palm Beach County Department of Airports - Runway Signage and Marking Re-Designation Project | 2015 | Ongoing |
| | Designed new runway ant taxiway signage replacement for general aviation airports. Included Provided construction administrative services. Electrical construction cost: \$500K. Project Ongoing. Cindy Portnoy – PBIA Project Manager. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| e. | FLL WP-304/305 Runway, Crossfield Taxiways & Holdpad Paving, Lighting and Signage, Ft. Lauderdale International Airport, Ft. Lauderdale, FL | 2013 | 2017 |
| | Designed for new Runway 9R-27L (8,000 ft.), (6) taxiways and (19) connectors electrical & lighting systems, included (250) in pavement lighting fixtures and (700) elevated lighting fixtures, guidance signage, (2) FAA MALSF systems, airfield lighting vault electrical and airfield lighting computer control monitoring system modifications, (2) BCAD PAPI systems, (3) wind cones, and power and control distribution ductbank systems for (6) FAA NAVAIDS systems. Providing construction administrative services. Estimated construction budget: \$13.8M. David Roepnack – BCAD Project Manager. Project completed 2017. | <input checked="" type="checkbox"/> Check if project performed with current firm | |

STANDARD FORM 330 (6/2004)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | | | |
|--|--|--|--|----------|----------------------|-----------|-----------|
| 12. NAME Raj Krishnasamy, P.E. | 13. ROLE IN THIS CONTRACT Principal Geotechnical Engineer | 14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="border: none; text-align: center;">31</td> <td style="border: none; text-align: center;">18</td> </tr> </table> | | a. TOTAL | b. WITH CURRENT FIRM | 31 | 18 |
| a. TOTAL | b. WITH CURRENT FIRM | | | | | | |
| 31 | 18 | | | | | | |
| 15. FIRM NAME AND LOCATION (City and State) TIERRA SOUTH FLORIDA, INC., West Palm Beach, Florida | | | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, Christian Brothers University, 1987 MS Civil Engineering, University of Memphis, 1996 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida No. 53567 | | | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Highway Engineers, Past President, Florida Engineering Society, Past Treasurer Geotechnical Material Engineering Council, Past Chairman | | | | | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|--|-------------------------------|------------------------------|
| | Fort Lauderdale Executive Airport (FXE), Loop Perimeter Road, Fort Lauderdale, Florida | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) |
| a. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the Geotechnical Engineering Services for the project which included the design phase of the Loop Perimeter Road within the Fort Lauderdale Executive Airport in Fort Lauderdale, Florida. The new 4,300± linear foot loop perimeter road along the western portion of the airport will eliminate vehicles from crossing the western approach end when relocating equipment and fueling aircraft. The purpose of the study was to provide geotechnical input to the design team to assist in evaluation of the merits of the planned construction. | | |
| | Taxiway Foxtrot Pavement Rehabilitation, Fort Lauderdale Executive Airport, Fort Lauderdale, Florida | PROFESSIONAL SERVICES 2016 | CONSTRUCTION (If applicable) |
| b. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the Geotechnical Engineering Services for the project which included pavement rehabilitation of Taxiway Foxtrot within the Fort Lauderdale Executive Airport in Fort Lauderdale, Florida. The purpose of the study was to provide geotechnical input to the design team to assist in evaluation of the merits of the potential improvements. The study was performed to obtain information on the existing subsurface conditions at the proposed project site to assist in the design of construction plans for the proposed improvements. | | |
| | Administrative Building Addition, Fort Lauderdale Executive Airport, Fort Lauderdale, Florida. | PROFESSIONAL SERVICES 2016 | CONSTRUCTION (If applicable) |
| c. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical services for the Fort Lauderdale Executive Airport (FXE) Administration Building. The project included renovation and an addition added to the main structure of the existing building. Provided geotechnical recommendations for foundation design, foundation soil preparation requirements, Foundation types, depths, allowable bearing capacities, and an estimate of potential settlement; general site development; and comments regarding factors that may impact construction and performance of the proposed construction. | | |
| | Fort Lauderdale Executive Airport (FXE), Electrical Vault Improvements, Fort Lauderdale, Florida | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) |
| d. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical engineering study Geotechnical Engineering Study for the project which included the installation of a new electrical vault to replace the existing one, within the Fort Lauderdale Executive Airport in Fort Lauderdale, Florida. The purpose of the study was to provide geotechnical input to the design team to assist in evaluation of the merits of the potential construction. Provided a Geotechnical Services Report for the project which included a geotechnical discussion regarding subsurface conditions found at the site and foundation recommendations | | |
| | Taxiway Echo Rehabilitation Project - Fort Lauderdale Executive Airport Broward County, Florida | PROFESSIONAL SERVICES 2013 | CONSTRUCTION (If applicable) |
| e. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical exploration, pavement cores and laboratory testing for the rehabilitation which included reconstruction or milling and resurfacing of Taxiway Echo and connectors. Field study consisted of Standard Penetration Test (SPT) borings, BoreHole Permeability (BHP) tests, field CBR tests - Kessler Method, and pavement cores. Performed limited laboratory testing on selected soil samples, including grain size analysis, organic content, and Modified Proctor Tests. Also performed laboratory CBR tests (ASTM D1883). Provided subsurface information, soil profiles, and test results. | | |



STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | | | | | |
|--|---|--|--|----------|----------------------|----|----|
| 12. NAME Francois Thomas, P.E., S.I. | 13. ROLE IN THIS CONTRACT Principal Materials Engineer / Threshold Inspector | 14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="border: none; text-align: center;">25</td> <td style="border: none; text-align: center;">16</td> </tr> </table> | | a. TOTAL | b. WITH CURRENT FIRM | 25 | 16 |
| a. TOTAL | b. WITH CURRENT FIRM | | | | | | |
| 25 | 16 | | | | | | |
| 15. FIRM NAME AND LOCATION (City and State) TIERRA SOUTH FLORIDA, INC., West Palm Beach, Florida | | | | | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) MS in Geotechnical Engineering, 1993 BS in Civil Engineering, 1991 | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida No. 56381 | | | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Special Inspector 7021399, Certified Masonry Inspector, Radiation Safety Officer | | | | | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|--|-----------------------------------|------------------------------|
| | Private Parking Lot-Parcel 21B, Fort Lauderdale Executive Airport, Fort Lauderdale, Florida | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) |
| a. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Thomas was the principal engineer for the geotechnical engineering services for the project which includes a new on-grade parking lot for 300 vehicle parking spaces and a privacy wall located off NW 21 st Avenue, near Commercial Boulevard in Fort Lauderdale. The parking lot is restricted to employees, rental cars, long term customer parking, and special activities at the Fort Lauderdale Executive Airport. Provided Geotechnical engineering evaluations and recommendations regarding General site conditions; Permanent Cut and Fill Slopes; Excavations; Groundwater Control; On-Site Soil Suitability; Foundation and Pavement Design Considerations. | | |
| | Fort Lauderdale Executive Airport (FXE), Loop Perimeter Road, Fort Lauderdale, Florida | PROFESSIONAL SERVICES 2017 | CONSTRUCTION (If applicable) |
| b. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Thomas was the principal engineer for the Geotechnical Engineering Services for the project which included the design phase of the Loop Perimeter Road within the Fort Lauderdale Executive Airport. The new 4,300± linear foot loop perimeter road along the western portion of the airport will eliminate vehicles from crossing the western approach end when relocating equipment and fueling aircraft. The purpose of the study was to provide geotechnical input to the design team to assist in evaluation of the merits of the planned construction. | | |
| | Taxiway Intersection Improvements, Fort Lauderdale Executive Airport, Fort Lauderdale, Florida | PROFESSIONAL SERVICES 2016 | CONSTRUCTION (If applicable) |
| c. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Thomas served as principal geotechnical engineer for the Taxiway Intersection Improvements within the Fort Lauderdale Executive Airport. The purpose of the study was to provide geotechnical input to the design team to assist in evaluation of the merits of the potential improvements. Provided geotechnical engineering evaluation of the site and subsurface conditions with respect to the planned taxiway improvements based upon site observations, field exploratory test data obtained during the geotechnical study, and our understanding of the project information. | | |
| | Taxiway Foxtrot Pavement Rehabilitation, Fort Lauderdale Executive Airport, Fort Lauderdale, Florida | PROFESSIONAL SERVICES 2016 | CONSTRUCTION (If applicable) |
| d. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Thomas served as principal geotechnical engineer for the Geotechnical Engineering Services for the project which included pavement rehabilitation of Taxiway Foxtrot within the Fort Lauderdale Executive Airport. The purpose of the study was to provide geotechnical input to the design team to assist in evaluation of the merits of the potential improvements. The study was performed to obtain information on the existing subsurface conditions at the proposed project site to assist in the design of construction plans for the proposed improvements. | | |
| | Taxiway F Rehabilitation, Fort Lauderdale Executive Airport, Fort Lauderdale, Florida. | PROFESSIONAL SERVICES On-going | CONSTRUCTION (If applicable) |
| e. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Thomas is the principal geotechnical engineer for the QA construction material testing and inspection services for the Taxiway F Rehabilitation project at the Fort Lauderdale Executive Airport. TSF's scope of services include inspection of asphalt plant supplier prior to starting construction; Density tests on backfill and stabilized subgrade material along with representative Proctor and LBR tests, Gradation, Atterberg Limits and Organic Content tests; TSF is also providing a Senior Engineering Technician to assist with asphalt plant inspections and testing during initial test section; asphalt plant and field inspections and testing during production; Witness asphalt core drilling and delivery to asphalt plant. TSF is providing daily reports in FAA format; testing logs, and signed / sealed material testing and asphalt summary reports. The project is on-going. | | |



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| E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) | | | |
|--|--|--|----------------------------|
| 12. NAME Lakdas Nanayakkara, P.E. | | 13. ROLE IN THIS CONTRACT Project Manager | |
| | | 14. YEARS EXPERIENCE | |
| | | a. TOTAL 44 | b. WITH CURRENT FIRM 35 |
| 15. FIRM NAME AND LOCATION (City and State) Lakdas/Yohalem Engineering, Inc. | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) Post Graduate Diploma in Structural Engineering Bachelor of Science Honors Degree in Civil Engineering With Structural Engineer Major | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Structural/Civil Engineer Florida #037590 Certified Structural Masonry Inspector Certified Uniform Building Code Inspector Certified General Contractor Certified Threshold Inspector | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Structural Engineering Expert for Unsafe Structure Board – City of Margate since “2001”. | | | |
| 19. RELEVANT PROJECTS | | | |
| a. | (1) TITLE AND LOCATION (City and State) City of Lauderhill - New Municipal Complex | (2) YEAR COMPLETED | |
| | | PROFESSIONAL SERVICES 2009 | CONSTRUCTION N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This 4-story municipal office building is the first LEED Silver City Hall in all of Broward, Dade, and Palm Beach counties. The complex was constructed in the heart of the City’s business district and provides workspace environments for the offices of the Mayor, Commissioners and City Manager departments. In addition, it includes a 150-seat Commission Chamber with a pre-function area. | | |
| b. | (1) TITLE AND LOCATION (City and State) McNab Bridge, Pompano Beach, Fl. | (2) YEAR COMPLETED | |
| | | PROFESSIONAL SERVICES 2003 | CONSTRUCTION N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Condition Survey, Restoration and Expansion of 5 spans, 4 lane bridge with sidewalks. Girder bridge with a continuous cast in place and pre-stressed concrete pile foundation. | | |
| c. | (1) TITLE AND LOCATION (City and State) City of Hollywood Marina | (2) YEAR COMPLETED | |
| | | PROFESSIONAL SERVICES 2014 | CONSTRUCTION |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Condition Survey, Design service for renovation and Inspection services for Pier A, C and D | | |
| d. | (1) TITLE AND LOCATION (City and State) SE 8 th Court Bridge Replacement | (2) YEAR COMPLETED | |
| | | PROFESSIONAL SERVICES 2012 | CONSTRUCTION N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Condition Survey, Design and Inspection Services for Renovation and expansion of existing bridge | | |
| e. | (1) TITLE AND LOCATION (City and State) Linear Park Picnic Shelter Renovation | (2) YEAR COMPLETED | |
| | | PROFESSIONAL SERVICES 2015 | CONSTRUCTION N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Condition Survey, Design and Inspection Services for Picnic Shelters, Foot bridge and Docks | | |



LAKDAS/YOHALEM ENGINEERING, INC.
CONSULTING ENGINEERS

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

| | | | |
|--|---|---|----------------------------|
| 12. NAME Wendy Cyriacks | 13. ROLE IN THIS CONTRACT Principal/Chief Scientist | 14. YEARS EXPERIENCE | |
| | | a. TOTAL 25+ | b. WITH CURRENT FIRM 15 |
| 15. FIRM NAME AND LOCATION (City and State) Cyriacks Environmental Consulting Services (CECOS) Inc., Deerfield Beach, FL | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) MS - Marine Biology, NOVA Southeastern University OC (graduate classes completed, 2004) BS - Biology/Marine Biology, University of Miami (1983) | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <ul style="list-style-type: none"> Florida Association of Environmental Professionals - Treasure Coast Chapter & South Florida Publications: Ward, G., B. Baca, W. Cyriacks, R. Dodge and A. Knap. 2003. Continuing Long-Term Studies of the TROPICS Panama Oil and Dispersed Oil Spill Site 2003 Oil Spill Conference, USCG, USEPA, NOAA, API, Vancouver, BC. | | | |

19. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|---|-----------------------|------------------------------|
| | | PROFESSIONAL SERVICES | CONSTRUCTION (If Applicable) |
| a. | Palm Beach County General Consulting Services Palm Beach County Department of Airports | Ongoing | N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Manager for three separate PBC DOA General Consulting Services contract since 2009; providing miscellaneous environmental and permitting services including wildlife studies surveys (burrowing owl, gopher tortoise, wildlife hazard assessment), environmental permitting for NCO and LNA, annual SWPPP updates and NPDES compliance inspections (2011 - 2016), wetland delineations, agency coordination and Phase I Environmental Assessments. | | |
| b. | U.S. 1/FEC RR Structures for the Expansion of Runway 9R-27L at FLL Airport, BCAD, Broward County, FL | 2015 | 2016 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This major Broward County Design-Build project involves design and construction of the realignment of US1 and structures that will carry Runway 9R-27L and the parallel Taxiway over US-1, FEC RR and the Airport's East Perimeter Road. Environmental Manager responsible for the environmental permitting effort including SFWMD Environmental Resource Permit modifications and Dewatering permits, USACE Dredge/Fill and Broward EPGMD wetland, Stormwater and Tree permit/license modifications. Specific activities include preparation of permit applications, agency coordination, project oversight, scheduling, client coordination and quality control of all submittals. Also Conducted permit closeout. | | |
| c. | Lantana Airport Stormwater Master Plan Palm Beach County Department of Airports, West Palm Beach, FL | 2014 | N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project involves developing a Conceptual Stormwater Management Master Plan and Environmental Resource Permit (ERP) application. As Environmental Project Manager, primary responsibility is to assist in the preparation of the permit application and to conduct all environmental related work. Specific activities include overseeing all environmental work activities, conducting quality control reviews for all aspects of the study and scheduling, team coordination and all project management activities. Additional activities include technical assistance, agency coordination, wetland delineations, UMAMs and identification of mitigation options. | | |
| d. | I-595/Port Everglades Expressway Corridor Improvements I-595 Express, LLC./ FDOT District 4, Ft Lauderdale, Broward County, FL | 2014 | N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This Private-Public Partnership project (P3) involved major reconstruction of I-595 mainline and interchanges and extended from SW 136th Street to east of SR 7. Environmental Manager responsible for all interagency coordination, permit agency liaison, permit preparation and quality control reviews. This was a fast track project with over 25 permits being obtained within the 18 months. Permits were required from Broward County, SFWMD (ERP, R/W Occupancy and Dewatering), USACE Dredge/Fill, FDEP NPDES and several Drainage Districts. Prepared and coordinated documentation for Section 408 approval from the USACE for modification to the North New River Canal. | | |
| e. | SR 710 Design-Build RFP Package Development, FDOT District 4, Palm Beach, FL | 2016 | N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project extends from just west of the Martin/Palm Beach County line to the Pratt Whitney Entrance. Project Manager responsible for environmental permitting including development of the Environmental Resource Permit (ERP) Package, coordination with SFWMD and USACE on jurisdictional wetland lines and impacts, developing UMAM, WRAP, m-WRAP and WATER functional assessment scores for preparation of Bid package for mitigation. Also responsible for preparing environmental portions of the Design-Build RFP package, serving as a member of the Technical Advisory Group and post design services. | | |

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

| | | | |
|------------------------------|--|----------------------|---------------------|
| 12. NAME Sheryl A. Dickey | 13. ROLE IN THIS CONTRACT President/Project Manager | 14. YEARS EXPERIENCE | |
| | | a. TOTAL: 25 | b. CURRENT FIRM: 19 |

15. FIRM NAME AND LOCATION (City and State)

Dickey Consulting Services, Inc., Fort Lauderdale, FL

16. EDUCATION (Degree and Specialization)

B.S.S.W. – Project Management and Public Relations

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Certification – Charrette Planner and Public Meeting Facilitator – Virginia Tech

| | | | |
|-----------------------------|---|----------------------|--------------------|
| 12. NAME Justina Hicklyn | 13. ROLE IN THIS CONTRACT Public Relations Coordinator | 14. YEARS EXPERIENCE | |
| | | a. TOTAL: 4 | b. CURRENT FIRM: 3 |

15. FIRM NAME AND LOCATION (City and State)

Dickey Consulting Services, Inc., Fort Lauderdale, FL

16. EDUCATION (Degree and Specialization)

B.S. - Communications

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

| | | | |
|--------------------------|--|----------------------|--------------------|
| 12. NAME Sheree Uhler | 13. ROLE IN THIS CONTRACT Project Coordinator | 14. YEARS EXPERIENCE | |
| | | a. TOTAL: 20 | b. CURRENT FIRM: 1 |

15. FIRM NAME AND LOCATION (City and State)

Dickey Consulting Services, Inc., Fort Lauderdale, FL

16. EDUCATION (Degree and Specialization)

Bachelor of Arts

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)


Notary Public

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

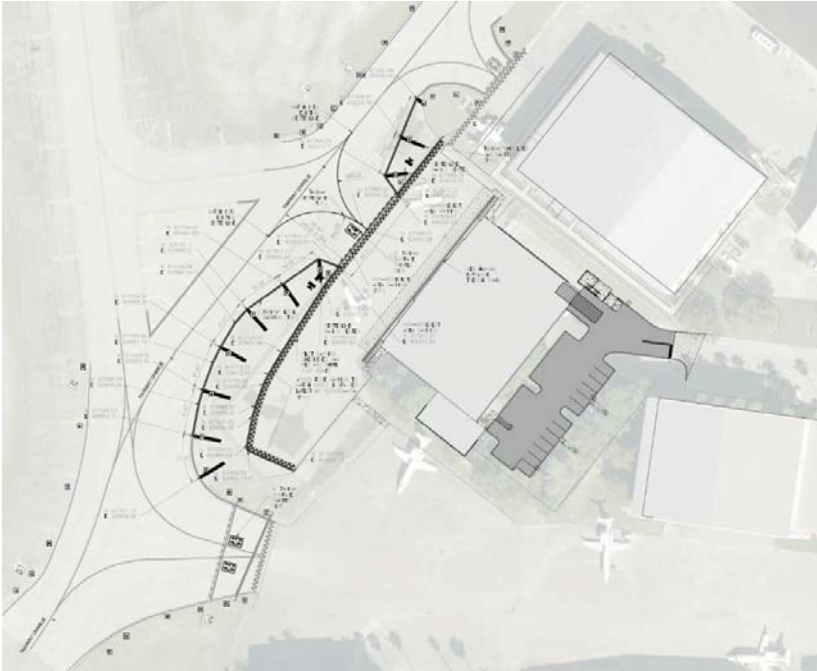
Office Management, Quick Books

19. RELEVANT PROJECTS


| 1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED | |
|---|--|--|------------------------------|
| Boca Raton Airport Authority DBE Liaison Boca Raton, FL | | PROFESSIONAL SERVICES: 2008-Current | CONSTRUCTION(if applicable): |
| (3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm | | | |
| <p>a. • AWOS Replacement (Task 28)/ AWOS Replacement Task 28B. DCS, Inc conducts monthly Pay Application reviews and subsequently products a Review report with our findings. As a part of our ongoing responsibilities, we also periodically check the Biznet database to verify that all DBEs are still actively registered as such. Refer to project contract amount to ensure that payments are in accordance with the correct contract amount (Original or amended). (July 2012-Present)</p> <p>• Goal setting for Admin Bldg Utility Improvement Project-Task 27H. DCS, Inc. has recently complete the DBE goal setting for the construction phase of this project and will continue with actively monitoring the DBE activity associated with the project. (December-Present)</p> <p>• Jet Blast Deflector Task 12 B &C. DCS Inc. was responsible for producing a bid document review report, attending pre-construction meetings and compiling statistical and empirical (June 2013-Present)</p> <p>Pay Applications generally include but are not limited to: Contractor and sub-contractor's weekly/bi-weekly payroll, monthly invoices, DBE Utilization Reports, Payment Verification forms and proof of payment (i.e. actual processed checks). DCS, Inc. composes and submits all required monthly reports; which include all pertinent recommendations. DCS, Inc is represented in all relevant project meetings. Each Fiscal year DSC, Inc. is responsible for reporting up-to-date information to the Department of Transportation Doors website.</p> | | | |
| (1) TITLE AND LOCATION (City and State) | | (2) YEAR COMPLETED | |
| Fort Lauderdale Executive Airport DBE Liaison Fort Lauderdale, FL | | PROFESSIONAL SERVICES: 2006-Current | CONSTRUCTION(if applicable): |
| (3) BRIEF DESCRIPTION AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm | | | |
| <p>b. • FXE Taxiway Echo. DCS, Inc. Reviews all payments made to Prime and Sub-consultants, obtained from the City and Prime Consultant. Periodically refer to project contract to ensure that all payments are in accordance with the correct contract amount (Original or amended). Duties also include providing payment verification forms to the actual DBE contractors for execution by the company officer and receipt of all updated contracts and documents associated with project. Frequently correspond with City representative to address any compliance concerns. (January 2013-Present)</p> <p>• DBE Program: Review airport's prior years' DBE goals and utilization. Provide DBE Goal setting and methodology services for FY 2012-2014. Develop draft report for client to review and submit to the FAA. Place DBE Goal ads in newspapers and monitor correspondence during the public comment period. (August 2011-September 2011)</p> <p>• Runway 13/31 Pavement Rehab: Provide DBE Monitoring & Reporting Services during construction. Attend weekly progress meetings and report any DBE issues. (October 2006-September 2007)</p> <p>• Taxiway Alpha Relocation: Provide DBE Monitoring & Reporting Services during construction. Attend weekly progress meetings and report and DBE issues. (October 2007-September 2009)</p> <p>• Provided Public Involvement coordination with the residents, public and businesses for the FXE Master Plan process in 2006.</p> | | | |

| | | | |
|--|--|---|---|
| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i> | | 20. EXAMPLE PROJECT KEY NUMBER 1 | |
| 21. TITLE AND LOCATION (City and State) | | 22. YEAR COMPLETED | |
| Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects (Fort Lauderdale, Florida) | | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | On-going | On-going |
| 23. PROJECT OWNER'S INFORMATION | | | |
| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER | |
| Broward County Aviation Department | Marc Gambrell, PE, Assistant Director of Aviation for Capital Improvements | (954) 359-2343 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) | | | |
| Keith and Associates is prime consultant providing professional services for design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects, which include construction, rehabilitations and renovation activities. Some of the assigned projects include: <ul style="list-style-type: none"> • 12" Westside Water Main Loop • 16" Water Transmission Main North Perimeter Road • North Runway 10L-28R Pavement Restoration and Repairs • Utility Atlas & Miscellaneous Services • South Runway 10R-28L Drainage Mitigation • FedEx North Runway 10L-28R Emergency Repair • North Runway 10L-28R Miscellaneous Repairs • North Runway 10L-28R Study Peer Review • T4 Gate 504 Camera System • Taxicab-Limo Hold Lot Communications Infrastructure • South Runway 10R-28L Settlement Monitoring • South Runway 10R-28L Bridge Inspection • FLL and HWO Pavement Management • Transportation Network Companies (TNC) Parking Lot • Airside Pavement Markings • South Runway 10R-28L Stormwater Remediation Improvements • West Side Dry Detention Pond Improvements • Airfield Sign Replacement Study • South Runway 10R-28L and Midfield Taxiways Warranty Remediation | |  | |
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | |
| | (1) FIRM NAME | (2) FIRM LOCATION (City and State) | (3) ROLE |
| a. | Keith and Associates, Inc. | Pompano Beach, FL | (PRIME) Engineering, Survey, Subsurface Utility Engineering, Planning, Landscape Architecture, Transportation, RPR, Construction Administration and Inspection Services |
| b. | RS&H, Inc. | Fort Lauderdale, FL | (Sub) Transportation, Traffic, Engineering, Telecommunications, RPR, Construction Administration and Inspection Services |
| c. | Hillers Electrical Engineering, Inc. | Boca Raton, FL | (Sub) Airside Electrical |
| d. | Lakdas/Yohalem Engineering, Inc. | Fort Lauderdale, FL | (Sub) Structural Engineering |


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|--|--|---|-----------------------|-------------------------------------|------|----------|
| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i> | | 20. EXAMPLE PROJECT KEY NUMBER 2 | | | | |
| 21. TITLE AND LOCATION <i>(City and State)</i> Sheltair Parcel 16-C at Fort Lauderdale Executive Airport (FXE) (Fort Lauderdale, Florida) | | 22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td>2017</td> <td>On-going</td> </tr> </table> | PROFESSIONAL SERVICES | CONSTRUCTION <i>(if applicable)</i> | 2017 | On-going |
| PROFESSIONAL SERVICES | CONSTRUCTION <i>(if applicable)</i> | | | | | |
| 2017 | On-going | | | | | |
| 23. PROJECT OWNER'S INFORMATION | | | | | | |
| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER | | | | |
| Holland Builders of Florida, Inc. | John Sobol, Vice President of Construction | (954) 771-2210 | | | | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>Keith and Associates, Inc. (KEITH) was responsible for providing planning, landscape architecture, civil engineering design and permitting for both landside and airside improvements for the proposed Sheltair Facility located on Parcel 16-C at the Fort Lauderdale Executive Airport (FXE). Sheltair obtained a lease with the City of Fort Lauderdale to build a combination of office, hangar, with associated drive aisles, parking, aprons, taxiway connection, and site utilities at FXE. Access and utilities will be provided from NW 56th Street. Connections to Taxiway Charlie will be provided by designed taxiway connectors 'C4'. The facility is anticipated to be approximately 1,650 square feet of office and 16,500 square feet of hangar area with over an acre of associated site work. The associated ramp was designed to have the capacity to support G650 Aircraft vessels.</p> <p>In additional to permitting through the City of Fort Lauderdale and multiple Broward County agencies, KEITH obtained FAA Approval for the filing of Notice of Proposed Construction (Form 7460-1 and Form 7460-2) for the proposed Sheltair Aviation Hangar at FXE. KEITH developed two airspace plans outlining the building, crane placement and crane operational limits, and displayed architectural building elevations for height information correlated to mapped points on the airspace plans. These points were reviewed by the FAA with the Part 77 surface and the airspace layout plan for potential hazards with adjacent taxiways and runways. The project is currently under construction and is anticipated to open late 2018.</p> | | | | | | |
|  | | | | | | |
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | | | | |
| | (1) FIRM NAME | (2) FIRM LOCATION <i>(City and State)</i> | | | | |
| a. | Keith and Associates, Inc. | Pompano Beach, FL | | | | |
| | | (3) ROLE | | | | |
| | | Planning, Landscape Architecture, SUE, Civil Engineering, Permitting | | | | |

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|---|-------------------------------------|---|--|-----------------------|------------------------------|--------------------------------------|----------|-------------------------|-------------------------------------|-------------------|--------------------|
| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.) | | | 20. EXAMPLE PROJECT KEY NUMBER 3 | | | | | | | | |
| 21. TITLE AND LOCATION (City and State) Miscellaneous Surveying Services for Fort Lauderdale Executive Airport (FXE) (Fort Lauderdale, Florida) | | 22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>On-going</td> <td>N/A</td> </tr> </table> | | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) | On-going | N/A | | | | |
| PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) | | | | | | | | | | |
| On-going | N/A | | | | | | | | | | |
| 23. PROJECT OWNER'S INFORMATION <table border="1"> <tr> <td>a. PROJECT OWNER</td> <td>b. POINT OF CONTACT NAME</td> <td colspan="2">c. POINT OF CONTACT TELEPHONE NUMBER</td> </tr> <tr> <td>City of Fort Lauderdale</td> <td>Dave Bardt, PE (Prime: Kimley-Horn)</td> <td colspan="2">(561) 845-0665</td> </tr> </table> | | | | a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER | | City of Fort Lauderdale | Dave Bardt, PE (Prime: Kimley-Horn) | (561) 845-0665 | |
| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER | | | | | | | | | |
| City of Fort Lauderdale | Dave Bardt, PE (Prime: Kimley-Horn) | (561) 845-0665 | | | | | | | | | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) | | | | | | | | | | | |
| <p>Keith and Associates (KEITH) has performed extensive surveying services at Fort Lauderdale Executive Airport (FXE). For resurfacing and rehabilitation of Taxiways Bravo, Charlie, Delta, Echo and Foxtrot, as well as the Customs replacement building and the master drainage project, KEITH performed boundary, topographic, and conceptual design surveys as per FAA A/C 150/5300-16A, 17B and 18B and successfully uploaded information to the FAA GIS database. Areas surveyed at FXE:</p>  | | | | | | | | | | | |
| p25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT <table border="1"> <tr> <td>a.</td> <td>(1) FIRM NAME</td> <td>(2) FIRM LOCATION (City and State)</td> <td>(3) ROLE</td> </tr> <tr> <td></td> <td>Keith and Associates, Inc.</td> <td>Pompano Beach, FL</td> <td>Survey and Mapping</td> </tr> </table> | | | | a. | (1) FIRM NAME | (2) FIRM LOCATION (City and State) | (3) ROLE | | Keith and Associates, Inc. | Pompano Beach, FL | Survey and Mapping |
| a. | (1) FIRM NAME | (2) FIRM LOCATION (City and State) | (3) ROLE | | | | | | | | |
| | Keith and Associates, Inc. | Pompano Beach, FL | Survey and Mapping | | | | | | | | |

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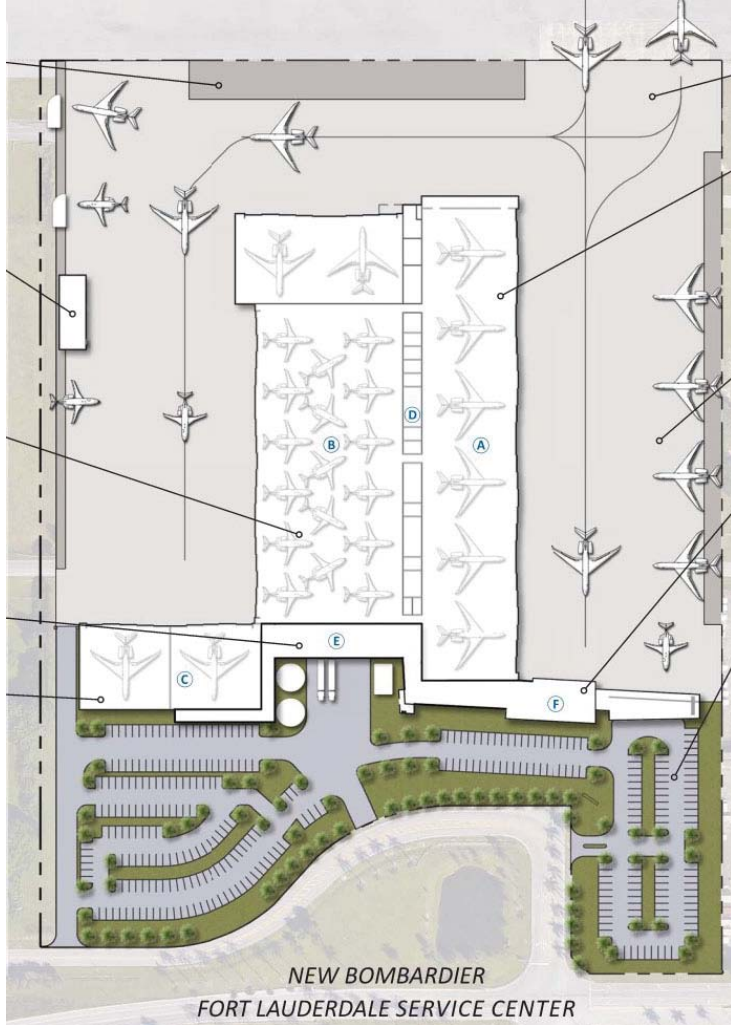
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| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.) | | | 20. EXAMPLE PROJECT KEY NUMBER 4 |
| 21. TITLE AND LOCATION (City and State) | | 22. YEAR COMPLETED | |
| New South Runway 10R-28L for Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) |
| | | 2013 | 2015 |
| 23. PROJECT OWNER'S INFORMATION | | | |
| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER | |
| Broward County Aviation Department | Trevor Fisher, PE, Assistant Aviation CDO | (954) 359-6866 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) | | | |
| <p>Keith and Associates (KEITH), as subconsultant partner to Atkins, provided design, bidding and construction phase services for the Airport Expansion Program (AEP) for the design of a new south Runway 10R-28L and associated taxiways, at Fort Lauderdale-Hollywood International Airport. The new runway, along with a full-length parallel taxiway to the north, extends 8,000 feet long by 150 feet wide over the existing airport Perimeter road, Florida East Coast Railroad and US Highway 1 located east of the Airport. This required the new Runway 10R-28L and its inner parallel taxiway to be elevated to the east. This necessitates two Runway/Taxiway Structure(s). The proposed runway alignment, longitudinal and transverse runway grades, and the taxiway extensions were configured in accordance with the FAA Advisory Circular 150/5300-13 Airport Design to accommodate a Boeing 777-300. The project included:</p> <ul style="list-style-type: none"> • Demolition of existing airfield pavements and facilities • New runway high speed exit taxiways and connector taxiways to the parallel taxiway • New full length parallel taxiway and partial length outer parallel taxiway • New cross-field dual parallel taxiway system to connect to the north Runway 10L-28R and parallel taxiway system • Major stormwater drainage and detention systems requiring permitting through the South Florida Water Management District (SFWMD) and Broward County Environmental Permitting Department (BCEPD) • Runway and Taxiway lighting and signage system • Approximately 6.5 million cubic yards of earthwork and grading • Temporary and permanent erosion control measures • Multiple utilities relocation and installation of new utilities • New Mechanically Stabilized Earth (MSE) retaining wall system • New security fencing and camera system • New Engineered Material Arresting Systems (EMAS) for both Runway 10R and 28L runway ends • Partial decommissioning of Taxiways D and E and Runway 13-31 • NAVAIDS design and access roads | |  | |
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | |
| | (1) FIRM NAME | (2) FIRM LOCATION (City and State) | (3) ROLE |
| a. | Keith and Associates, Inc. | Pompano Beach, FL | Engineering, Survey, RPR, Construction Management and Landscape Architecture |
| b. | RS&H, Inc. | Fort Lauderdale, FL | Engineering, RPR and Construction Management |
| c. | Hillers Electrical Engineering, Inc. | Boca Raton, FL | Electrical |
| d. | Tierra of South Florida, Inc. | West Palm Beach, FL | Geotechnical Engineering |
| e. | Lakdas/Yohalem Engineering, Inc. | Fort Lauderdale, FL | Structural Engineering |

| | | | |
|--|----------------------------------|--|--|
| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i> | | 20. EXAMPLE PROJECT KEY NUMBER 5 | |
| 21. TITLE AND LOCATION (City and State) Landside Short Term Improvement Projects at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | | 22. YEAR COMPLETED PROFESSIONAL SERVICES On-going CONSTRUCTION (if applicable) On-going | |
| 23. PROJECT OWNER'S INFORMATION | | | |
| a. PROJECT OWNER Broward County Aviation Department | | b. POINT OF CONTACT NAME Marc Gambrell, PE, Assistant Director of Aviation for Capital Improvements | |
| | | c. POINT OF CONTACT TELEPHONE NUMBER (954) 359-2343 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) | | | |
| <p>With the increase of traffic and affiliated congestion on the FLL terminal roadway system and along the terminal curb fronts, Broward County Aviation Department (BCAD) initiated an analysis of the existing terminal landside conditions at FLL. The study developed short-term improvements that can be executed in the next five years in hopes to ease the identified congestion points and to enhance the level of service provided to airport users for the forecasted level of demand through 2020. As the Prime Engineering Consultant through our Professional Consulting Services continuing contract with BCAD, Keith and Associates (KEITH) is currently providing Civil Engineering, Landscape Architecture, SUE, Surveying and RPR services for these critical short-term improvement projects (STIP). To date the KEITH team has initiated work on the following STIP projects:</p> <div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <ul style="list-style-type: none"> • <u>Exit Roadway and Valet Routing Improvements</u>: This project provides great decision distance for vehicles exiting the Cypress Garage and merging onto outbound terminal roadway. We will channel the traffic to northbound and southbound lanes to minimize weaving. In addition we rework the valet parking area and add a new exit road way for valet which will greatly reduce their travel time and increase parking capacity. • <u>Cell Phone Lot and Perimeter Road Exit Road Enhancement</u>: This project adds a new travel lane for outbound traffic originating along the frontage of Terminal 4 and will connect to Perimeter Road adjacent to the abandoned road ramp with independent left and right turn capability. This will significantly improve decision distance for vehicles exiting terminal drive to Perimeter Road. In addition, this project is adding a new 150 parking space cell phone parking lot adjacent to Perimeter Road with easy access from the new roadway identified above. Associated drainage, lighting, landscape/irrigation, pavement markings, and wayfinding signage improvements will be included. The project also includes designing electronic Flight Information Display System (FIDS) board and typical parking lot security camera system for the new cell phone parking lot. • <u>Crosswalk Signalization, Lighting and Technology Improvements</u>: Preparation of construction drawings to better delineate and sign the existing crosswalk locations connecting the three parking garages enveloped by Terminal Drive to the four terminals along Terminal Drive. This includes four signalized crosswalks on the arrival level and four signalized crosswalks on the departure level. The traffic signals will be centered over the travel lanes on both levels, suspended on the cross beams of the upper deck on the arrival level and on new structural components on the departure level. </div> <div style="flex: 1;"> </div> </div> | | | |
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | |
| | (1) FIRM NAME | (2) FIRM LOCATION (City and State) | (3) ROLE |
| a. | Keith and Associates, Inc. | Pompano Beach, FL | (Prime) Lead Design Engineer, Landscape Architecture, SUE, Surveying and RPR |
| b. | RS&H, Inc. | Fort Lauderdale, FL | (Sub) Transportation, Traffic, Engineering, Telecommunications, RPR, Construction Administration and Inspection Services |
| c. | Lakdas/Yohalem Engineering, Inc. | Fort Lauderdale, FL | (Sub) Structural Engineering |



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|--|--|---|--|-----------------------|-------------------------------------|------|------|
| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i> | | | 20. EXAMPLE PROJECT KEY NUMBER 6 | | | | |
| 21. TITLE AND LOCATION <i>(City and State)</i> Terminal 1 Modernization and Concourse A at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | | 22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td>2017</td> <td>2017</td> </tr> </table> | | PROFESSIONAL SERVICES | CONSTRUCTION <i>(if applicable)</i> | 2017 | 2017 |
| PROFESSIONAL SERVICES | CONSTRUCTION <i>(if applicable)</i> | | | | | | |
| 2017 | 2017 | | | | | | |
| 23. PROJECT OWNER'S INFORMATION | | | | | | | |
| a. PROJECT OWNER Broward County Aviation Department | b. POINT OF CONTACT NAME John Murphy, AIA, LEED AP (Prime: CORGAN Aviation) | c. POINT OF CONTACT TELEPHONE NUMBER (214) 757-1736 | | | | | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> | | | | | | | |
| <p>Keith and Associates (KEITH), as a subconsultant partner to CORGAN Aviation, provided Civil Engineering, Landscape Architecture, Survey and Subsurface Utility Engineering (SUE) services for the modernization of Terminal 1, including centralized TSA checkpoint alterations, a new five gate Concourse A addition with a Federal Inspection Services (FIS) facility and other enabling projects.</p> <p>KEITH performed a topographic survey for the Terminal 1 modernization and expansion of Concourse A, including all above ground improvements, stripping and the soil boring locations, as well as horizontal and vertical location of subsurface utilities. In addition, KEITH completed a 3D laser scan of the terminal while under construction to determine the location of the structural framing members that would eventually support a heavy art installation piece meant to be suspended from the ceiling. Taking the scanning data, KEITH then modeled the structural supports, complete with support holes and notches, which were then used by the artwork installation team to fabricate the hanging pieces. (Laser scan image located to the right)</p> <p>KEITH designed Landscape and Irrigation Plans for the multi-story ellipse and the 'Meet and Greet' area of the terminal. The landscape consists of Florida-friendly shrub beds with lush foliage and colorful accent plantings with a mix of slender Montgomery Palms between stately Royal Palms that enhance this eye-catching structure. Irrigation plans were designed to provide coverage for the landscape beds and turf areas surrounding the new terminal grounds. Additionally, KEITH provided bid assistance and responses to RFI's related to landscape and installation/construction observation service for quality and quantity control of plant species and design intent, as specified in plans.</p> | |   | | | | | |
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | | | | | |
| a. | (1) FIRM NAME Keith and Associates, Inc. | (2) FIRM LOCATION <i>(City and State)</i> Pompano Beach, FL | (3) ROLE Landscape Architecture, Survey and SUE | | | | |

STANDARD FORM 330 (REV. 8/2016)

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|--|--|---|--|-----------------------|------------------------------|----------|-----|
| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i> | | | 20. EXAMPLE PROJECT KEY NUMBER 7 | | | | |
| 21. TITLE AND LOCATION (City and State) Bombardier Aircraft Service Center - Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida) | | 22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>On-going</td> <td>N/A</td> </tr> </table> | | PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) | On-going | N/A |
| PROFESSIONAL SERVICES | CONSTRUCTION (if applicable) | | | | | | |
| On-going | N/A | | | | | | |
| 23. PROJECT OWNER'S INFORMATION | | | | | | | |
| a. PROJECT OWNER Jacobs Engineering Group, Inc. | b. POINT OF CONTACT NAME Dan Richardson, Sr. Project Manager-Global Building | c. POINT OF CONTACT TELEPHONE NUMBER (214) 583-8595 | | | | | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) | | | | | | | |
|  <p style="text-align: center;">NEW BOMBARDIER FORT LAUDERDALE SERVICE CENTER</p> | | <p>Keith and Associates (KEITH) is providing professional services associated with the FLL Bombardier Aircraft Service Center, for an approximately 30 acres lease property located on the west side of Fort Lauderdale International Airport, south of Taxiway Charlie and north of Lee Wagner Boulevard.</p> <p>The project consists of approximately 290,000 square feet of hangar, shops and office area, including a parking lot that will provide 250 to 300 parking spaces and an apron and airside connection to Taxiway Charlie to support the operation of the proposed facility.</p> <p>KEITH is providing survey, planning and civil engineering services to include the site plan preparation and processing, water, sewer, paving, grading and drainage design to support the proposed facility. As the Engineer of Record for this project, we are responsible for the modification of the Airport's Master Drainage Plan and Permits requiring the revision of the existing drainage sub-basins delineations for the Western System of the "Overall FLL Airport Drainage Basin Map" to include the project's proposed improvements and the modification of the FLL Airport ICPR model based on the proposed sub-basin delineations and site proposed conditions. Additionally, we are designing the airside apron based on FAA requirements for airplanes weighing more than 30,000 lbs with the use of FAARFIELD.</p> <p>KEITH is also responsible for the construction phase services for this project, this will include review of shop drawings and as-builts reward drawings and periodic site inspections in accordance with the applicable permit conditions in order to complete the utilities certification process and close-out of same.</p> | | | | | |
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | | | | | |
| | (1) FIRM NAME | (2) FIRM LOCATION (City and State) | (3) ROLE | | | | |
| a. | Keith and Associates, Inc. | Pompano Beach, FL | Engineering, Planning, Survey, Construction Administration | | | | |
| b. | Tierra of South Florida | West Palm Beach, FL | Geotechnical Engineering | | | | |

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|--|-------------------------------------|--|---|-----------------------|-------------------------------------|------|------|
| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i> | | 20. EXAMPLE PROJECT KEY NUMBER <div style="text-align: center; border: 1px solid black; padding: 5px;">8</div> | | | | | |
| 21. TITLE AND LOCATION <i>(City and State)</i> RUNWAY 9L-27R AIRFIELD MODIFICATIONS - FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT (FLL) - Fort Lauderdale, Florida | | 22. YEAR COMPLETED <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES</td> <td style="width: 50%;">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center;">2013</td> <td style="text-align: center;">2013</td> </tr> </table> | | PROFESSIONAL SERVICES | CONSTRUCTION <i>(if applicable)</i> | 2013 | 2013 |
| PROFESSIONAL SERVICES | CONSTRUCTION <i>(if applicable)</i> | | | | | | |
| 2013 | 2013 | | | | | | |
| 23. PROJECT OWNER'S INFORMATION | | | | | | | |
| a. PROJECT OWNER | | b. POINT OF CONTACT NAME | | | | | |
| Broward County Aviation Department | | Gasser Douge, PE, CM | | | | | |
| | | c. POINT OF CONTACT TELEPHONE NUMBER | | | | | |
| | | (954) 359-6973 | | | | | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> | | | | | | | |
| <p>The RS&H team was selected to provide planning, engineering, permitting, construction administration and inspection services for the Runway 9L-27R Airfield Modifications project. Keith and Associates provided engineering support, RPR and surveying services. As part of the planning effort, RS&H evaluated a number of potential airfield enhancements to Runway 9L-27R, the primary arrival and departure runway. RS&H performed the planning effort, including Runway Exit Interactive Design Model (REDIM) analysis, Airport and Airspace Delay Simulation Model (SIMMOD), and Benefit Cost Analysis of the proposed improvements. Subsequently, a ranking of the proposed improvements was accomplished to allow the airport to determine which of the proposed improvements would be the most cost effective and beneficial to the airport.</p> <p>The new airfield enhancement improvements included:</p> <ul style="list-style-type: none"> ➤ New high speed exit Taxiways A4 and B5 on the north side and south side of the runway for east flow operations ➤ Widening of existing high speed exit Taxiway B3 on the south side of the runway for west flow operations ➤ Widening the Taxiway A and B end connectors to Runway 27R to allow two B-777 aircraft to hold side by side prior to crossing the runway to access the terminal concourses <p>The services provided for new pavement, subgrade preparation, utility protection over three high pressure jet fuel pipelines, new storm drainage facilities, new environmental permitting for all new pavements to meet South Florida Water Management District (SFWMD), Broward County and City of Fort Lauderdale environmental permit requirements.</p> <p>The project also included new runway and taxiway lighting and signage systems, modifications to existing FAA MALSR approach lighting system components, complete new runway in-pavement guard lighting systems, relocation of existing 4-box PAPI system, complete new computer controlled Airfield Lighting Control and Monitoring System (ALCMS) backbone for the airfield lighting vault and the FAA ATCT and modifications to the existing airfield lighting vault that included new regulators, power and control systems.</p> <p>The project demonstrated RS&H's effective airfield modeling capabilities, the development of complex Safety Phasing/Maintenance of Traffic Plans on a busy and congested runway and taxiway system for critical airport operations and the capability to design taxiway systems in accordance with the latest FAA criteria.</p> <p>The project also demonstrated RS&H's ability to perform construction administration and inspection duties where the Airport closed the runway 24 hours per day for seven days to allow the three high pressure jet fuel pipelines to have protective concrete covers installed to accommodate the weight of the most demanding aircraft planned for the Airport (B-777-300) passing over the pipelines. Due to the extremely close coordination between the Airport, the contractor and the FAA Tower staff, the runway was reopened at 5 PM on the seventh day. Additionally, the runway was to be closed from 9 PM until 5 PM (20 hours) each day for a maximum of 65 calendar days to complete all work on the three high speed exit taxiways and two taxiway widenings at the Runway 27R end within the Runway Object Free Area (OFA). The contractor was able to complete all the work within 52 calendar days allowing the runway to reopen 13 calendar days ahead of schedule. This accomplishment was due to the extremely qualified and dedicated inspection staff working tirelessly with Airport Management and Operations staffs, contractor and FAA Tower staff on a daily basis.</p> | | | | | | | |
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|  | | | | | | | |
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | | | | | |
| | (1) FIRM NAME | (2) FIRM LOCATION <i>(City and State)</i> | (3) ROLE | | | | |
| a. | Keith and Associates, Inc. | Pompano Beach, FL | Engineering, RPR Services, Surveying | | | | |
| b. | RS&H, Inc. | Fort Lauderdale, FL | Architectural, Engineering, Planning and Environmental Services | | | | |

| | | | | |
|---|--|--|-------------------------------|--------------------------------------|
| F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i> | | 20. EXAMPLE PROJECT KEY NUMBER 9 | | |
| 21. TITLE AND LOCATION <i>(City and State)</i> Fort Lauderdale Executive Airport, New Airfield Lighting Control and Monitoring System | | 22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2014</td> <td>CONSTRUCTION (if Applicable) 2015</td> </tr> </table> | PROFESSIONAL SERVICES 2014 | CONSTRUCTION (if Applicable) 2015 |
| PROFESSIONAL SERVICES 2014 | CONSTRUCTION (if Applicable) 2015 | | | |
| 23. PROJECT OWNER'S INFORMATION | | | | |
| a. PROJECT OWNER Fort Lauderdale Executive Airport | b. POINT OF CONTACT NAME Mr. Fernando Blanco, Aviation Engineering Manager | c. POINT OF CONTACT TELEPHONE NUMBER 561-471-7400 | | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> | | | | |

Design included new airfield lighting control and monitoring system in airfield vault and FAA ATCT, coordination with FAA Air Traffic and FAA new ATCT Project Managers, new current regulators for Taxiway EE and EW to make room for new control system cabinet, modifications to existing airfield electrical vault.

Electrical Design Estimate: \$500,000.

| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | |
|---|---|---|--|
| a. | (1) FIRM NAME Hillers Electrical Engineering, Inc | (2) FIRM LOCATION <i>(City and State)</i> Boca Raton, Florida | (3) ROLE Electrical Design and Construction Services |
| b. | (1) FIRM NAME | (2) FIRM LOCATION <i>(City and State)</i> | (3) ROLE |
| c. | (1) FIRM NAME | (2) FIRM LOCATION <i>(City and State)</i> | (3) ROLE |
| d. | (1) FIRM NAME | (2) FIRM LOCATION <i>(City and State)</i> | (3) ROLE |
| e. | (1) FIRM NAME | (2) FIRM LOCATION <i>(City and State)</i> | (3) ROLE |

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S
QUALIFICATIONS FOR THIS CONTRACT**

*(Present as many projects as requested by the agency, or 10 projects, if not specified.
Complete one Section F for each project.)*

| | | |
|--|--|--------------------------------------|
| 21. TITLE AND LOCATION <i>(City and State)</i> Palm Beach County Department of Airports (PBC DOA) General Consulting Contracts (Multiple Contracts), Palm Beach County, FL | 22. YEAR COMPLETED 2017 | 20. EXAMPLE PROJECT KEY NUMBER 10 |
| | PROFESSIONAL SERVICES Environmental Permitting, Wildlife Studies & Environmental Compliance Monitoring | |

23. PROJECT OWNER'S INFORMATION

| | | |
|--|---|---|
| a. PROJECT OWNER PBC Department of Airports | b. POINT OF CONTACT NAME Gary M. Sypek / Cindy Portnoy | c. POINT OF CONTACT TELEPHONE NUMBER (561) 471-7443 / (561) 471-7411 |
|--|---|---|

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Description of Work:

ENVIRONMENTAL PERMITTING

Palm Beach County Park Airport (LNA) - One assignment under our general services contract included the preparation of a Conceptual Stormwater Management Master Plan and SFWMD Conceptual Environmental Resource Permit (ERP) application for the Palm Beach County Park Airport (LNA). CECOS's assisted in the preparation of the permit application and conducted all environmental related work. Specific activities included wetland delineations, Uniform Mitigation Assessment Method (UMAM) analysis, identification of mitigation options, and agency coordination.

WILDLIFE STUDIES

Pahokee Airport (PHK) - CECOS conducted pre-construction burrowing owl surveys at the Pahokee Airport because of suitable habitat within the airport improvement areas. The surveys included field observation, photography, GPS records of burrows, GIS mapping, impact analysis, and completing a Pre-Construction Survey Report for Burrowing Owls. CECOS filed and obtained Migratory Bird Nest Removal Permits from the Florida Fish and Wildlife Conservation Commission (FWC) for burrowing owl burrows located within the limits of the airfield electrical improvement project. CECOS also conducted the collapsing/scoping effort per the FWC permits.



Palm Beach International Airport (PBIA)

CECOS filed and obtained Migratory Bird Nest Removal Permits from the FWC for burrowing owl burrows located within the limits of the runway rehabilitation project. The wildlife permitting effort included impact analysis, agency coordination, permit application and modification. CECOS staff collapses/scoped burrows per the FWC permits.

Palm Beach County Park Airport – Lantana (LNA) & North County Airport (F45)

CECOS conducted a Wildlife Hazard Assessment (WHA) at LNA and North County (F45) airports. The WHA was required due to wildlife strikes involving more than one animal occurring at these airports. The WHA included the following elements:

- An analysis of the events or circumstances surrounding the wildlife strikes requiring the assessment;
- Identification of wildlife species, quantities, locations, local movements, daily and seasonal occurrences through small mammal trapping;
- Identification and location of features on and near the airport that attract wildlife through on-site and off-site vegetative surveys;
- A description of wildlife hazards to air carrier operations; and
- Recommended actions for reducing identified wildlife hazards to air carriers.

ENVIRONMENTAL NPDES COMPLIANCE MONITORING

Palm Beach International (PBIA), North County (F45), Palm Beach County Park (LNA), Palm Beach Glades Airports

CECOS has provided NPDES stormwater pollution prevention plan (SWPPP) compliance inspections and training services 2011 through 2016 to comply with various FDEP regulations and permit conditions for four Palm Beach County DOA airports (PBIA, F45, LNA, and PHK). The scope of work included conducting 1) Annual Site Compliance Inspections; 2) Visual NPDES Permitted Drainage Structure Inspections; 3) Tenant and DOA Facility Inspections; 4) Annual SWPPP revisions; 5) Prepare Annual Compliance Inspection Report for each airport; and 6) Conduct Training Workshop for each airport.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | | |
|--------------------------------|---|----------------------------|
| a. (1) FIRM NAME CECOS, Inc | (2) FIRM LOCATION <i>(City and State)</i> Deerfield Beach, Florida | (3) ROLE Sub Consultant |
|--------------------------------|---|----------------------------|

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

| 26. NAMES OF KEY PERSONNEL (From Section E, Block 12) | 27. ROLE IN THIS CONTRACT (From Section E, Block 13) | 28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.) | | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Adolphine "Dodie" Keith-Lazowick, PLS | Principal-in-Charge | X | X | X | X | X | X | X | X | | |
| John Thompson, PE, LEED AP | Contract Manager | X | | | | X | | | | | |
| Thomas Donahue, PE | QA/QC Manager | X | | | | | | | | | |
| James Thiele, PE | Senior Project Engineer | X | X | X | X | X | X | X | X | | |
| Alex Lazowick, PE | Project Manager | X | X | X | X | | X | X | X | | |
| Lee Powers, PSM | Project Surveyor/GIS Specialist | X | | X | X | X | X | | X | | |
| Daniel Checchia | Subsurface Utility Engineering and Utility | X | | X | X | X | X | | X | | |
| Jonathan Weymouth, PE | Senior Construction Engineering Manager | X | | | X | X | | | X | | |
| Morris Smith, Jr. | RPR Inspector | X | | | X | X | | | X | | |
| Paul Weinberg, PLA, ASLA | Landscape Architect | X | | | | | X | X | | | |
| Michael Vonder Meulen, AICP | Senior Planner | | X | | | | | | | | |
| RS&H, Inc. | Mechanical, Plumbing, Civil and Structural Engineering, Architect, Grant Support | X | | | X | X | | | X | | |
| Hillers Electrical Engineering, Inc. | Electrical Design | X | | | X | | | | | X | |
| Tierra of South Florida, Inc. | Geotechnical Engineering, Materials Testing, Inspection Services | | | | X | | | X | | | |
| Lakdas/Yohalem Engineering, Inc. | Structural Engineering | X | | | X | X | | | | | |
| CECOS, Inc. | Environmental Consulting | | | | | | | | | | X |
| Dickey Consulting, Inc. | DBE Support Services | | | | | | | | | | |

29. EXAMPLE PROJECTS KEY

| NO. | TITLE OF EXAMPLE PROJECT (FROM SECTION F) | NO. | TITLE OF EXAMPLE PROJECT (FROM SECTION F) |
|-----|--|-----|--|
| 1 | Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects | 6 | Terminal 1 Modernization and Concourse A at Fort Lauderdale-Hollywood International Airport (FLL) |
| 2 | Sheltair Parcel 16-C at Fort Lauderdale Executive Airport (FXE) | 7 | Bombardier Aircraft Service Center at Fort Lauderdale-Hollywood International Airport (FLL) |
| 3 | Miscellaneous Surveying Services for Fort Lauderdale Executive Airport (FXE) | 8 | Runway 9L/27R Airfield Modifications at Fort Lauderdale-Hollywood International Airport (FLL) |
| 4 | New South Runway 10R-28L for Fort Lauderdale-Hollywood International Airport (FLL) | 9 | New Airfield Lighting Control and Monitoring System at Fort Lauderdale Executive Airport (FXE) |
| 5 | Landside Short Term Improvement Projects for Fort Lauderdale-Hollywood International Airport (FLL) | 10 | Palm Beach County Department of Airports (PBC DOA) General Consulting Contracts (Multiple Contracts) |

STANDARD FORM 330

Why KEITH?

Experience – An airport encompasses all facets of transportation including public transportation, pedestrian traffic, vehicular parking and roadways, in addition to the aviation components. Over the last 20 years, KEITH and our supporting consulting team partners have successfully completed the design, permitting, construction and certifications of numerous transportation, utility, pavement and building projects at airports across Florida, including projects at FXE. We understand the many challenges faced with improving and maintaining the transportation, utility infrastructures along with the aviation infrastructure at these facilities and have demonstrated our ability to provide quality, functional designs, while maintaining budget parameters and expediting schedule requirements. Our extensive aviation related experience provides us with a real understanding and respect for the numerous stakeholders, consultants, contractors and agencies that must work concurrently, effectively and in harmony for airport improvement projects to culminate in success.

Structure – KEITH remains a family-run, multi-disciplinary firm that empowers its project managers to make decisions that allow projects to progress efficiently. Dodie Keith-Lazowick remains a resource for all of our public sector clients. However, project managers actively manage their projects, responding to individual project needs quickly and in concert with clients' best interests. This approach is further strengthened by our in-house suite of services which allows for a holistic approach to each work order. The project manager orchestrates the communication and collaboration between his colleagues, who all understand the importance of this big picture perspective, for the benefit of our clients. To further support individual project needs, our sub-consultants remain a valued resource. Our nimble and multi-disciplinary structure facilitates an effective response to conditions on the ground, maximizing adherence to schedule, cost and quality requirements.

Understanding – The KEITH team understands the responsibilities assumed by aviation facilities, their managers and managing boards. Additionally, we understand the importance of elements that could impact FXE, as well as the region. Future development of land could impact the master stormwater drainage. KEITH has experience working with Master Drainage Permits, including modifications as necessary. Our team also understands the importance of grant funding for many of the anticipated improvement projects. Our team includes aviation grant experts that can facilitate the process from completing the application to administering the grant. Whether the FAA, FDOT or other grant source, our team has extensive experience with the grant application, approval and administration process.

Technology – The KEITH team utilizes cutting edge resources that facilitate workflows, thereby improving productivity. Some of these resources including Laser Scanning which uses highly accurate, long range lasers to capture visible reality. This information can be used to create 3D models, in addition to other deliverables such as final as-built drawings. This is a useful tool for both vertical and horizontal construction. KEITH has laser scanned structures such as buildings, bridges and historic architectural elements to be used during the design process. KEITH also uses AutoCaDD Civil 3D and can use Civil Information Modeling (CIM) for infrastructure modeling to support land development and transportation projects. KEITH has also purchased space on a Microsoft Super Cloud Computer to run large SWMM or ICRP models. The Super Cloud Computer runs behind one of the most secure firewalls to ensure data security. To facilitate collaboration, KEITH utilizes Skype and GoToMeeting. KEITH is always exploring new technologies to ensure we are providing our clients the best in efficient service and design.

The **KEITH** team has experienced, technically skilled individuals who are readily available to provide the services necessary to successfully complete any task work order. We have assembled the appropriate team members for each specific task area and have the ability to provide additional professionals for any unique tasks that may arise. Our intimate knowledge of aviation protocols coupled with our technical expertise, ensures that our approach and methodology result in accurate documents and designs. The combination of our firm's proactive project approach, experienced personnel, institutional experience and our reputation for quality and timely project completion provide for a strong, competent project team.

AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

April 2, 2018

33. NAME AND TITLE

Eliot Lazowick, Executive Vice President

STANDARD FORM 330

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

RFQ# 12120-986

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)


| | | | | | | |
|--|--|--|--|------------------------------|------------------------------------|--|
| 2a. FIRM (OR BRANCH OFFICE) NAME Keith and Associates, Inc. | | | 3. YEAR ESTABLISHED 1998 | | 4. DUNS NUMBER 618480219 | |
| 2b. STREET 301 East Atlantic Boulevard | | | 5. OWNERSHIP | | | |
| 2c. CITY Pompano Beach | | | 2d. STATE FL | 2e. ZIP CODE 33060 | | |
| 6a. POINT OF CONTACT NAME AND TITLE John Thompson, PE, LEED AP, Director of Aviation | | | a. TYPE Corporation | | | |
| 6b. TELEPHONE NUMBER 954-788-3400 | | | 6c. E-MAIL ADDRESS jthompson@keith-associates.com | | | b. SMALL BUSINESS STATUS N/A |
| 8a. FORMER FIRM NAME(S) (If any) N/A | | | 8b. YR. ESTABLISHED N/A | | 8c. DUNS NUMBER N/A | |

| 9. EMPLOYEES BY DISCIPLINE | | | | 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS | | |
|----------------------------|-------------------------------|---------------------|------------|--|---|-------------------------------------|
| a. Function Code | b. Discipline | c. No. of Employees | | a. Profile Code | b. Experience | c. Revenue Index Number (see below) |
| | | (1) Firm | (2) Branch | | | |
| 02 | Administrative | 12 | 5 | A06 | Airports; Terminals and Hangars | 6 |
| 08 | CADD Technician | 6 | 1 | B02 | Bridges | 2 |
| 12 | Civil Engineer, PE | 12 | 7 | C07 | Coastal Engineering | 2 |
| 60 | Transportation Engineer, PE | 2 | 1 | C10 | Commercial Building (Low Rise) | 6 |
| 15 | Construction Inspector | 6 | 3 | C11 | Community Facilities | 5 |
| 16 | Construction Manager | 14 | 14 | C15 | Construction Management | 6 |
| 29 | G.I.S. Specialist | 1 | 1 | C16 | Construction Surveying | 4 |
| 38 | Land Surveyor, PSM | 4 | | E02 | Educational Facilities | 4 |
| 39 | Landscape Architect, RLA | 3 | | F02 | Field Houses; Gyms; Stadiums | 3 |
| 47 | Planner: Urban/Regional | 5 | | G04 | G.I.S. Services; Development, Analysis | 2 |
| 48 | Project Manager | 6 | | H07 | Highways, Streets, Airfield Paving | 4 |
| 53 | Scheduler | 1 | 1 | H09 | Hospitals & Medical Facilities | 3 |
| | Landscape Designer | 5 | | I06 | Irrigation; Drainage | 3 |
| | Project Engineer | 5 | 1 | L03 | Landscape Architecture | 5 |
| | Project Surveyor | 2 | | P05 | Planning (Community, Regional ...) | 3 |
| | Survey Field Crew | 14 | | R03 | Railroad; Rapid Transit | 3 |
| | Subsurface Utility Engineer | 2 | | R04 | Recreation Facilities (Parks, Marinas, etc) | 4 |
| | Subsurface Utility Field Crew | 10 | | S10 | Surveying; Platting; Mapping; Flood Study | 3 |
| | Utility Coordinator | 2 | 1 | S13 | Storm Water handling & Facilities | 3 |
| | VDC/BIM | 1 | | T04 | Topographic Surveying & Mapping | 4 |
| | | | | W03 | Water Supply; Treatment & Distribution | 2 |
| | | | | Z01 | Zoning; Land Use Studies | 2 |
| Total | | 113 | 35 | | | |

| 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) | | PROFESSIONAL SERVICES REVENUE INDEX NUMBER | |
|--|-----|--|---|
| a. Federal Work | N/A | 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| b. Non-Federal Work | 8 | 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| c. Total Work | 8 | 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| | | 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| | | 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

| | |
|---|---------------------------------|
| a. SIGNATURE  | b. DATE April 2, 2018 |
|---|---------------------------------|

c. NAME AND TITLE
Eliot Lazowick, Executive Vice President

ARCHITECT – ENGINEER QUALIFICATIONS1. SOLICITATION NUMBER (If any)
12120-986**PART II – GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

| | | | | |
|--|--|--|--|---|
| 2a. FIRM (or Branch Office) NAME RS&H, Inc. | | | 3. YEAR ESTABLISHED 1990 | 4. UNIQUE ENTITY IDENTIFIER 096085253 |
| 2b. STREET 3125 West Commercial Boulevard, Suite 130 | | | 5. OWNERSHIP | |
| 2c. CITY Fort Lauderdale | | | a. TYPE Corporation | |
| 2d. STATE FL | | | b. SMALL BUSINESS STATUS No | |
| 2e. ZIP CODE 33309-3448 | | | 7. NAME OF FIRM (If block 2a is a branch office) RS&H, Inc. | |
| 6a. POINT OF CONTACT NAME AND TITLE John Carrigan, Southeast Region Aviation Leader | | | | |
| 6b. TELEPHONE NUMBER 954-236-7396 x7396 | | 6c. E-MAIL ADDRESS John.Carrigan@rsandh.com | | |
| 8a. FORMER FIRM NAME(S) (If any) Reynolds, Smith and Hills, Inc. | | | 8b. YEAR ESTABLISHED 1990 | 8c. UNIQUE ENTITY IDENTIFIER Unchanged |

9. EMPLOYEES BY DISCIPLINE

| a. Function Code | b. Discipline | c. No. of Employees | |
|------------------|-------------------------------|---------------------|------------|
| | | (1) FIRM | (2) BRANCH |
| 02 | Administrative | 221 | 3 |
| 06 | Architect | 62 | 0 |
| 08 | CADD Technician | 36 | 1 |
| 12 | Civil Engineer | 258 | 20 |
| 15 | Construction Inspector | 191 | 0 |
| 16 | Construction Manager | 17 | 0 |
| 21 | Electrical Engineer | 19 | 0 |
| 24 | Environmental Scientist | 24 | 0 |
| 25 | Fire Protection Engineer | 3 | 0 |
| 29 | Geographic Information System | 1 | 0 |
| 30 | Geologist | 0 | 0 |
| 37 | Interior Designer | 11 | 0 |
| 39 | Landscape Architect | 2 | 0 |
| 42 | Mechanical Engineer | 31 | 0 |
| 47 | Planners: Urban/Regional | 44 | 0 |
| 48 | Project Manager | 0 | 0 |
| 57 | Structural Engineer | 48 | 1 |
| 58 | Technician/Analyst | 0 | 0 |
| 60 | Transportation Engineer | 0 | 0 |
| 62 | Water Resources Engineer | 16 | 3 |
| | Other Employees | 146 | 2 |
| Total | | 1130 | 30 |

**10. PROFILE OF FIRM'S EXPERIENCE
AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS**

| a. Profile Code | b. Experience | c. Revenue Index Number (see below) |
|-----------------|--|-------------------------------------|
| A05 | Airports; Nav aids; Airport Lighting; Aircraft | 8 |
| A06 | Airports; Terminals; & Hangers; Freight | 8 |
| B02 | Bridges | 7 |
| C15 | Construction Management | 9 |
| D04 | Design-Build - Preparation of Requests for | 7 |
| E02 | Educational Facilities; Classrooms | 6 |
| E07 | Energy Conservation; New Energy Sources | 5 |
| E09 | Environmental Impact Studies, Assessments | 6 |
| | Financial Establishments (Banks) | 6 |
| H01 | Harbors; jetties; Piers; Ship Terminal | 5 |
| H07 | Highways; Streets; Airfield Paving; Parking | 9 |
| H09 | Hospitals & Medical Facilities | 5 |
| I01 | Industrial Buildings; Manufacturing Plants | 4 |
| L01 | Laboratories; Medical Research Facilities | 6 |
| M07 | Missile Facilities (Silos; Fuels; Transport) | 6 |
| O01 | Office Building; Industrial Parks | 5 |
| P05 | Planning (Community; Regional; Areawide & | 8 |
| P06 | Planning (Site, Installation and Project) | 6 |
| R03 | Railroad and Rapid Transit | 6 |
| S09 | Structural Design; Special Structures | 7 |
| S13 | Stormwater Handling & Facilities | 5 |
| T03 | Traffic & Transportation Engineering | 8 |

**11. ANNUAL AVERAGE PROFESSIONAL SERVICES
REVENUES OF FIRM
FOR LAST 3 YEARS**
(Insert revenue index number shown at right)

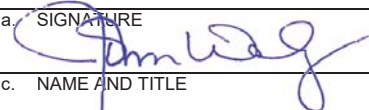
| | |
|---------------------|----|
| a. Federal Work | 8 |
| b. Non-Federal Work | 10 |
| c. Total Work | 10 |

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

| | |
|---|----------------------|
| a. SIGNATURE  | b. DATE 3/29/2018 |
| c. NAME AND TITLE John Walz, Vice President, Aviation | |

ARCHITECT ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

12120-986

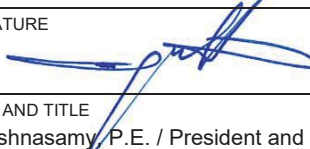
PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

| | | | | | | | |
|--|-----------------------------|--|------------|--|---|-------------------------------------|--|
| 2a. FIRM (OR BRANCH OFFICE) NAME TIERRA SOUTH FLORIDA, INC. | | | | 3. YEAR ESTABLISHED 2003 | | 4. DUNS NUMBER 829296222 | |
| 2b. STREET 2765 Vista Parkway, Suite 10 | | | | 5. OWNERSHIP | | | |
| 2c. CITY West Palm Beach | | 2d. STATE FL | | 2e. ZIP CODE 33411 | | a. TYPE Corporation | |
| 6a. POINT OF CONTACT NAME AND TITLE Raj Krishnasamy, P.E. / Principal Engineer, President | | | | b. SMALL BUSINESS STATUS Florida Statewide OSD MBE | | | |
| 6b. TELEPHONE NUMBER (561)687-8539 | | 6c. E-MAIL ADDRESS Raj@TierraSF.com | | 7. NAME OF FIRM (If block 2a is a branch office) N/A | | | |
| 8a. FORMER FIRM NAME(S) (If any) N/A | | | | 8b. YR. ESTABLISHED N/A | | 8c. DUNS NUMBER N/A | |
| 9. EMPLOYEES BY DISCIPLINE | | | | 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS | | | |
| a. Function Code | b. Discipline | c. No. of Employees | | a. Profile Code | b. Experience | c. Revenue Index Number (see below) | |
| | | (1) FIRM | (2) BRANCH | | | | |
| 2 | Administrative | 6 | 6 | S05 | Soils and Geologic Studies; Foundations | 5 | |
| 8 | CADD Technician | 2 | 2 | T02 | Testing and Inspection Services | 6 | |
| 27 | Foundation/Geotechnical Eng | 5 | 5 | | | | |
| 58 | Technician/Analyst | 30 | 30 | | | | |
| 58 | Technician/Inspector | 6 | 6 | | | | |
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| | | | | | | | |
| Total | | 49 | 49 | | | | |
| 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) | | PROFESSIONAL SERVICES REVENUE INDEX NUMBER | | | | | |
| a. Federal Work | | 3 | | 1. Less than \$100,000. | | | |
| b. Non-Federal Work | | 5 | | 2. \$100,000 to less than \$250,000 | | | |
| c. Total Work | | 6 | | 3. \$250,000 to less than \$500,000 | | | |
| | | | | 4. \$500,000 to less than \$1 million | | | |
| | | | | 5. \$1 million to less than \$2 million | | | |
| | | | | 6. \$2 million to less than \$5 million | | | |
| | | | | 7. \$5 million to less than \$10 million | | | |
| | | | | 8. \$10 million to less than \$25 million | | | |
| | | | | 9. \$25 million to less than \$50 million | | | |
| | | | | 10. \$50 million or greater | | | |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

| | | |
|---|--|---------------------------|
| a. SIGNATURE  | | b. DATE March 26, 2018 |
| c. NAME AND TITLE Raj Krishnasamy, P.E. / President and Principal Engineer | | |



STANDARD FORM 330

| ARCHITECT – ENGINEER QUALIFICATIONS | | | | | 1. SOLICITATION NUMBER (If any) 12120-986 | |
|--|----------------------------|--|------------|---|---|--------------------------------------|
| PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i> | | | | | | |
| 2a. FIRM (OR BRANCH OFFICE) NAME Lakdas/Yohalem Engineering, Inc. | | | | 3. YEAR ESTABLISHED 1987 | | 4. DUNS NUMBER 08-735-8701 |
| 2b. STREET 2211 NE 54th Street | | | | 5. OWNERSHIP a. TYPE Corporation | | |
| 2c. CITY Fort Lauderdale | | 2d. STATE FL | | 2e. ZIP CODE 33308 | b. SMALL BUSINESS STATUS MBE/SBE/DBE/CDBE | |
| 6a. POINT OF CONTACT NAME AND TITLE Lakdas Nanayakkara | | | | 7. NAME OF FIRM (If block 2a is a branch office) | | |
| 6b. TELEPHONE NUMBER (954) 771-0630 | | 6c. E-MAIL ADDRESS lye@lyengineering.com | | | | |
| 8a. FORMER FIRM NAME(S) (If any) Yohalem Engineering, Inc. | | | | 8b. YR ESTABLISHED 1969 | | 8c. DUNS NUMBER |
| 9. EMPLOYEES BY DISCIPLINE | | | | 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS | | |
| a. Function Code | b. Discipline | c. No. of Employees | | a. Profile Code | b. Experience | c. Revenue Index Number (see below) |
| | | (1) FIRM | (2) BRANCH | | | |
| 02 | Administrative (Principal) | 1 | | C07 | 37 years | 5 |
| 02 | Administrative | 1 | | C08 | 30 years | 5 |
| 48 | Project Managers | 3 | | C09 | 16 years | 5 |
| 57 | Structural Engineer | 3 | | C10 | 37 years | 5 |
| 12 | Civil Engineer | 1 | | C11 | 38 years | 5 |
| 08 | Cadd Technician | 1 | | F05 | 25 years | 5 |
| 15 | Construction Inspector | 4 | | S90 | 34 years | 5 |
| | Other Employees | | | | | |
| Total | | 14 | | | | |
| 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) | | | | PROFESSIONAL SERVICES REVENUE INDEX NUMBER | | |
| a. Federal Work | | 5 | | <div style="display: flex; justify-content: space-between;"> <div> 1. Less than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million </div> <div> 6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater </div> </div> | | |
| b. Non-Federal Work | | | | | | |
| c. Total Work | | 5 | | | | |
| 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts. | | | | | | |
| a. SIGNATURE | | | | | b. DATE March 29, 2018 | |
| c. NAME AND TITLE Lakdas Nanayakkara, President | | | | | | |



LAKDAS/YOHALEM ENGINEERING, INC.
CONSULTING ENGINEERS

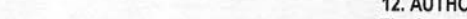
AUTHORIZED FOR LOCAL REPRODUCTION

1. SOLICITATION NUMBER (If any)

(If a firm has branch offices, complete for each specific branch office seeking work.)

| 9. EMPLOYEES BY DISCIPLINE | | | | 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS | | |
|----------------------------|--|---------------------|------------|--|---------------------------------------|-------------------------------------|
| a. Function Code | b. Discipline | c. No. of Employees | | a. Profile Code | b. Experience | c. Revenue Index Number (see below) |
| | | (1) FIRM | (2) BRANCH | | | |
| | Public Relations/DBE Liaison and Project Management Services | 2 | 2 | | Public Relations/DBE Liaison Services | 4 |
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| | | | | | | |
| Total | | 2 | 2 | | | 4 |

| 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) | | PROFESSIONAL SERVICES REVENUE INDEX NUMBER | |
|--|---|--|---|
| a. Federal Work | 2 | 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| b. Non-Federal Work | 2 | 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| c. Total Work | 4 | 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| | | 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| | | 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

| | |
|--|----------------------------|
| 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts. | |
| a. SIGNATURE  | b. DATE 03-28-18 |
| c. NAME AND TITLE Sheryl A. Dickey, President/CEO | |

Sustainability Practices

KEITH is devoted to improving the built and natural environments we are fortunate to be a part of and for our team that starts at our home offices. Sustainability requires a more holistic approach than before; one that looks at a triple bottom line from economics, social and ecological aspects. Our team is committed to recycling programs and typical standards to eliminate excessive use and waste. We seek to utilize the most energy efficient systems and to minimize the need for travel and our carbon footprint through the use of technology platforms that allow person to person communication via the web.

Our team understands the importance of community and is involved in a number of non-profit organizations that focus on the homeless, single moms, as well as organizations like Birch State Park and the Riverwalk in order to do our part in assisting in the preservation of both people and place in the areas we are privileged to work within. For our team, sustainability is more than a recycling program or a non-print email signature, we seek to make an impact that embraces the full community that in turn supports us.

Business Structure and Licenses

Keith and Associates, Inc. was incorporated as a Florida corporation in 1998. Ms. Dodie Keith-Lazowick is the managing principal/owner and serves as the corporate officer for the firm. Our responsible office for this contract will be located at 301 East Atlantic Boulevard, Pompano Beach, FL 33060 and the principal in charge will be Mr. John Thompson who may be reached at 954-235-9587 or via email at jthompson@keith-associates.com. Our multi-disciplinary firm is comprised of 5 management staff, 78 technical personnel and 12 supportive staff. All requisite licenses may be found within this response submittal.



Licenses

RICK SCOTT, GOVERNOR KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

LICENSE NUMBER
LC26000457

The LANDSCAPE ARCHITECT BUSINESS
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2017

KEITH AND ASSOCIATES, INC.
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH FL 33069

ISSUED: 09/20/15 DISPLAY AS REQUIRED BY LAW SEQ # L150910007612

State of Florida
Board of Professional Engineers

Attests that
Keith & Associates, Inc.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2019
Audit No: 228201900747 R

CA Lic. No: 7928

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Parkway Tallahassee, Florida 32399-6590

Licence No: LB6860
Expiration Date: February 28, 2019

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

KEITH AND ASSOCIATES INC.
301 EAST ATLANTIC BLVD
POMPANO BEACH, FL 33069-6643

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

RICK SCOTT, GOVERNOR JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

LICENSE NUMBER
LC26000457

The LANDSCAPE ARCHITECT BUSINESS
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2019

KEITH AND ASSOCIATES, INC.
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH FL 33069

ISSUED: 10/04/2017 DISPLAY AS REQUIRED BY LAW SEQ # L1710040001707

State of Florida
Board of Professional Engineers

Attests that
John R. Thompson, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019
Audit No: 228201900665 R

P.E. Lic. No: 78214

State of Florida
Board of Professional Engineers

Attests that
Thomas F. Donahue, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019
Audit No: 228201901434 R

P.E. Lic. No: 60529

State of Florida
Board of Professional Engineers

Attests that
James Arno Thiele, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019
Audit No: 228201900259 R

P.E. Lic. No: 33256

State of Florida
Board of Professional Engineers

Attests that
Alexander Scott Lazowick, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019
Audit No: 228201912549 R

P.E. Lic. No: 78625

State of Florida
Board of Professional Engineers

Attests that
Stephen Donald Williams, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019
Audit No: 228201912549 R

P.E. Lic. No: 32050

State of Florida
Board of Professional Engineers

Attests that
Jonathan Patrick Weymouth, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2019
Audit No: 228201912549 R

P.E. Lic. No: 52892

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Parkway Tallahassee, Florida 32399-6590

Licence No: LB6405
Expiration Date: February 28, 2019

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

ADOLPHINE MARIE LAZOWICK
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33069-6643

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Parkway Tallahassee, Florida 32399-6590

Licence No: LB6683
Expiration Date: February 28, 2019

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

LEE POWERS
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33069-6643

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

RICK SCOTT, GOVERNOR JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

LICENSE NUMBER
LC26000457

The LANDSCAPE ARCHITECT BUSINESS
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2019

WEINBERG, PAUL HARVEY
140 NW 107TH TERRACE
PLANTATION FL 33324

ISSUED: 02/21/2018 DISPLAY AS REQUIRED BY LAW SEQ # L1802210001100



FLL Terminal 4 Gate Replacement

CAM# 18-0676
Exhibit 8
Page 62 of 118

Organizational Profile and Project Team

4.0

Key Personnel

The KEITH Team is fortunate to have expertise represented in every arena relative to land development. Our core team is represented below. For complete SF 330, please see section 3.0 Firm Qualifications and Experience.



Dodie Keith-Lazowick, PLS
President



John Thompson, PE, LEED AP
Director of Aviation



Tom Donahue, PE
QA/QC Manager



James Thiele, PE
Senior Project Engineer



Alex Lazowick, PE
Assistant Director of
Engineering



Lee Powers, PSM
Director of Surveying &
Mapping

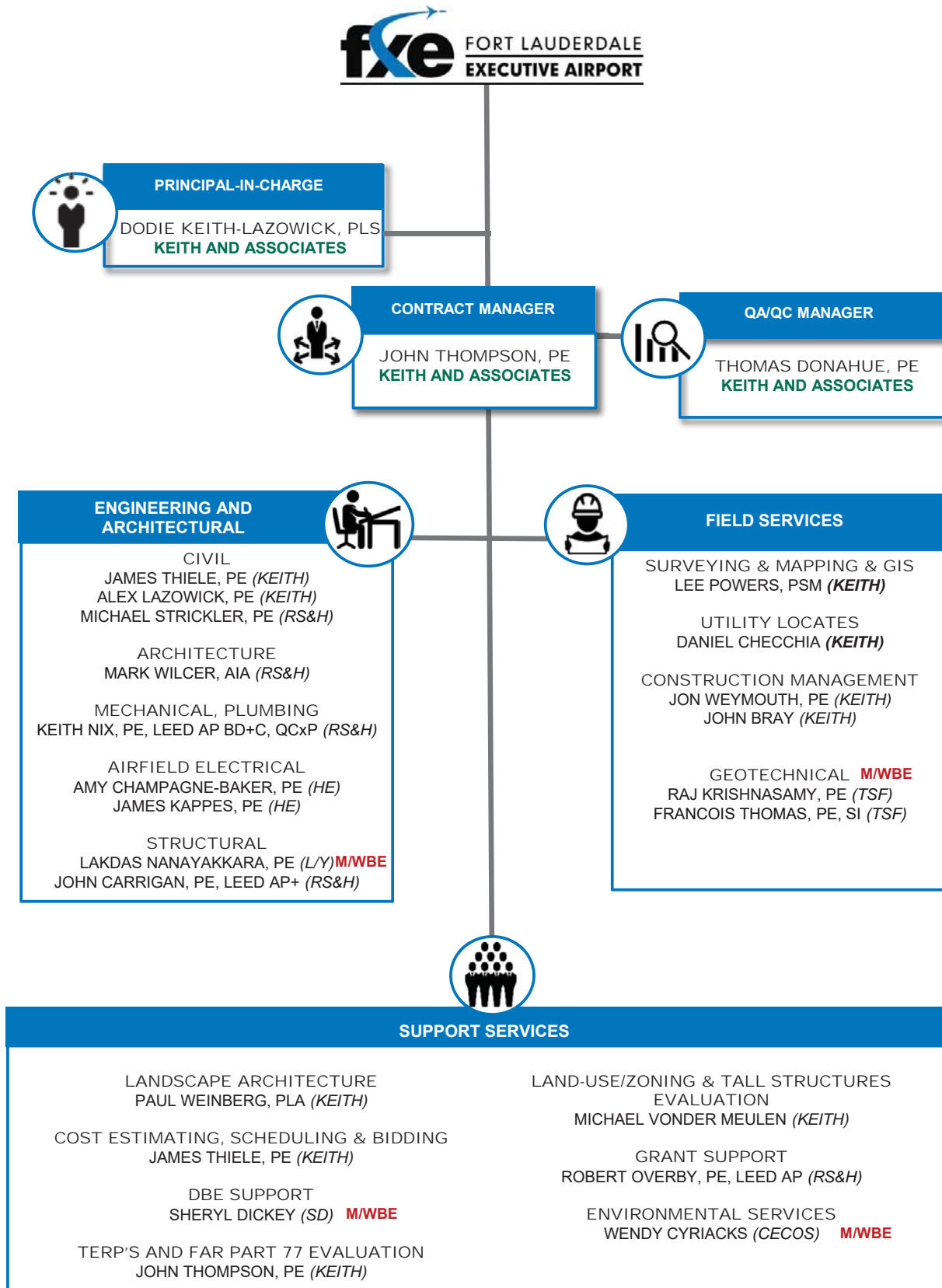
Project Manager and Design Lead - John Thompson, PE, LEED AP, will serve as the contract's main point of contact. John has over 15 years of professional experience in design, planning and construction management services dedicated to aviation and airports.

His expertise includes airport geometric designs (FAA, ICAO, and UFC criteria), airport planning, airfield obstruction surfaces and applying three-dimensional modeling techniques. He is also experienced in understanding and applying sustainable designs to airfield projects.

John has recently joined the KEITH team to advance the firm's Aviation practice. He has led teams on significant projects in South Florida as well as around the globe. Throughout his career, John has designed and managed environmental, planning, engineering and construction services on more than 40 domestic and international airport rehabilitation, improvement and expansion projects. He is a registered engineer in Florida and Puerto Rico and received his Bachelor of Science in Civil Engineering from Embry-Riddle Aeronautical University, Cum Laude.

Project Team

Our team was selected with emphasis placed on professional consultants recognized as leaders in their field and experienced in servicing municipal and aviation clients. We believe that our team holds the most relevant project experience to assist the City and FXE in the execution of this contract.





RS&H, Inc.
3125 W. Commercial Boulevard, Suite 130
Fort Lauderdale, FL 33324

PROVIDING THE FOLLOWING SERVICES:

Civil, Mechanical, Plumbing, Structural and Grant Support Services

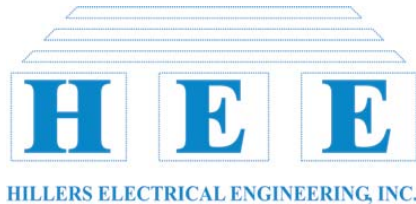
With a tradition that spans 77 years, RS&H has built a reputation as a client-centered facilities and infrastructure consulting firm whose practice structure offers value-added solutions to clients throughout the country. RS&H is organized into five client-focused practices that are centered on our Aviation Practice. RS&H offers a deep bench of aviation specialists in all areas of design. In many industry circles, RS&H is considered the “go-to” airfield design firm, and is ranked by ENR magazine as the 11th largest aviation design firm in the United States. With its headquarters in Jacksonville, Florida, and a majority of its more than 200 associates dedicated to the Aviation Practice, RS&H is an integral part of the airport community in the State of Florida. RS&H has successfully completed several aviation projects for our Florida airport clients and has completed the same type of project as this one right here in Fort Lauderdale at FXE.



RS&H’s engineering culture provides clients with the confidence to move forward on all types of airport improvement projects. RS&H is a leader in the aviation industry, having participated in the preparation of several industry-leading documents and guidelines, and in leadership positions for numerous aviation industry associations. The KEITH Team will provide FXE the benefits of this industry involvement, because RS&H staff will bring the latest industry knowledge and lessons learned to all assignments. Our industry involvement helps us identify trends in the industry, which we not only disseminate to RS&H staff, but more importantly, bring to the KEITH Team.

FAA

A unique feature of the RS&H Team is that not only does the staff make themselves familiar with the documents, but they also participate in the document development process. For example, RS&H staff participated on the TSA’s Airport Security Design Guidelines Working Group that updated the FAA’s Airport Security Planning, Design and Construction Guidelines document. RS&H authored FAA Advisory Circular 150/5070-6B, Airport Master Plans for the FAA. RS&H also helped review a draft version of FAA Order 1050.1F (Environmental Impacts: Policies and Procedures) and RS&H submitted comments to the FAA. In addition, RS&H was contracted by the US Department of Transportation to prepare a handbook to administer the Small Community Air Service Development Program. It is this commitment to active participation during the development of regulations and standards that gives RS&H more than just a familiarity with the applicable requirements. RS&H Associates participated on a Task Force to review and provide comments on the draft FAA Advisory Circular 150/5300-13A *Airport Design*.



Hillers Electrical Engineering, Inc. (HEE)
23257 State Road 7, Suite 100
Boca Raton, FL 33428

PROVIDING THE FOLLOWING SERVICES:
Airfield Electrical

Hillers Electrical Engineering, Inc. has been in business since February 1994 and is located in Boca Raton, FL. Our staff offers unsurpassed experience, expertise and personalized service in electrical engineering design and control application programming. Our electrical design services include power, control, instrumentation, telemetry for major air carrier and general aviation airports terminals & airfield electrical & lighting systems, DOT roadway systems, water and wastewater treatment facilities, multi-sports complexes, storm water pumping and control structures, fueling systems and seaport storage and handling facilities for federal, state, county and municipal agencies. Our office is fully equipped with current state-of-the-art computer systems and engineering software to help ensure a quality and cost-effective product.

Aviation

The Hillers Electrical Engineering, Inc. design staff brings to this project over 30 years of electrical design and project management experience on major air carrier and general aviation airports terminals & airfields that includes edge and centerline runways & taxiways lighting systems, approach lighting systems (ODALS, MALSR), instrumentation landing systems (localizer, glide slope, DME units), airfield electrical vaults, air traffic control towers, airfield lighting control systems, terminal power systems for HVAC, lighting, navigational aids (VASI, PAPI, REIL), signage and all types of aircraft maintenance hangar facilities.

Sample projects include:

Fort Lauderdale Executive Airport, Taxiway Golf Relocation

New taxiway lighting & signage system for the Relocation of existing Taxiway Golf. Included new taxiway edge lighting, new mandatory & guidance signage, relocation of existing elevated runway guard lighting system, new electrical circuit conductors & conduit systems
Mr. Fernando Blanco, Aviation Engineering Manager

Fort Lauderdale Executive Airport, New Airfield Lighting Control and Monitoring System - Included new airfield lighting control and monitoring system in airfield vault and FAA ATCT, coordination with FAA Air Traffic and FAA new ATCT Project Managers, new current regulators for Taxiway EE and EW to make room for new control system cabinet, modifications to existing airfield electrical vault.

Mr. Fernando Blanco, Aviation Engineering Manager

Fort Lauderdale Executive Airport, Pavement Rehabilitation of Taxiway Charlie and Delta - Included new taxiway edge lighting, new guidance signage, new electrical circuit conductors & conduit systems

Mr. Fernando Blanco, Aviation Engineering Manager

Fort Lauderdale Executive Airport, Taxiway Echo Pavement Rehabilitation

New taxiway lighting & signage system for the Taxiway Echo geometry changes. Included new taxiway edge lighting, new mandatory & guidance signage, relocation of existing elevated runway guard lighting system, new electrical circuit conductors & conduit systems

Mr. Fernando Blanco, Aviation Engineering Manager



Tierra South Florida
2765 Vista Parkway, Suite 10
West Palm Beach, FL 33411

PROVIDING THE FOLLOWING SERVICES:

Geotechnical Engineering, Materials Testing and Inspection

Tierra South Florida, Inc. (TSF) is a full service consulting geotechnical and construction materials testing engineering firm with capabilities to provide test borings, engineering analyses and reports, AutoCAD and Microstation plan sheets, laboratory soils testing, and construction materials testing. TSF's professional team has been working together since 2000 and is committed to providing quality, responsive service establishing a reputation for sound approaches and professional competence in a wide range of technically demanding areas. Their services also include threshold/special inspection and roofing inspection services. TSF is a certified Disadvantaged Business Enterprise (DBE) with the Florida Department of Transportation. TSF is also a certified Minority Business Enterprise (MBE) with the State of Florida's Office of Supplier Diversity. TSF's main office is located in West Palm Beach, Florida with branch offices in Hialeah Gardens and Altamonte Springs, Florida.

TSF staff currently includes principal engineers and technicians certified through nation and state programs with over 30 years of experience in geotechnical, construction, laboratory and field materials testing and inspection services. Their in-house testing laboratory is AASHTO and ASTM certified by CMEC and validated by the FDOT. Please see below for a list of airports where TSF has provided geotechnical and construction material testing services:

- Fort Lauderdale Executive Airport (FXE), Broward County
- Fort Lauderdale-Hollywood International Airport (FLL), Broward County
- North Perry Airport (HWO), Broward County
- Pompano Beach Airpark (PMP), Broward County
- Witham Field Airport, Martin County
- North Palm Beach County General Aviation Airport (F45), Palm Beach County
- Florida Keys Marathon Airport, Monroe County
- Palm Beach County Glades Airport (PHK), Palm Beach County
- Valkaria Airport (X59), Brevard County
- Vero Beach Airport, Indian River County
- Big Cypress Airfield, Collier County
- Kendall-Tamiami Executive Airport (TMB), Miami-Dade County
- Palm Beach International Airport (PBI), Palm Beach County
- Lantana Airport (LNA), Palm Beach County
- Naval Air Facility, Monroe County
- St. Lucie County International Airport (FPR), St. Lucie County
- Boca Raton Airport (BCT), Palm Beach County
- Key West International Airport, Monroe County



Lakdas/Yohalem Engineering, Inc.
2211 N.E. 54th Street
Ft. Lauderdale, FL 33308

PROVIDING THE FOLLOWING SERVICES:
Structural Engineering

Lakdas/Yohalem Engineering, Inc. (LYE) is a medium sized professional structural and civil engineering firm that has been in operation in South Florida since 1970 (Broward County). We provide Structural and Civil Engineering Services for buildings and infrastructure in the tri-counties. This includes port and airport terminals and support facilities, city and local Government building facilities, hotel and resorts, schools and hospital building facilities. We are State Certified Threshold Inspectors. Lakdas Nanayakkara and two staff members are professional Engineers, as well as state certified general contractors who have in depth knowledge of design, inspection and constructability of building and engineering projects.

- Fort Lauderdale Airport: Threshold Inspection Services General Engineering Services
- Four Pedestrian Bridges between Parking Garage & Terminal 2, 3 & 4
- Fort Lauderdale Airport - Terminal 2 Modernization
- Fort Lauderdale Airport - Terminal 3 Modernization
- Canopy Structures between Terminal 1 & 2 - Terminal 2 & 4
- Fort Lauderdale Airport Signage & Wayfinding
- Fort Lauderdale Airport (Baggage Screening Building Expansion)
- Fort Lauderdale Airport Chiller Support: Terminal 2
- Throat Expansion Concourse: Concourse "F"
- Maintenance Building: Design & Threshold Inspection Services
- Cargo Handling Building: Threshold Inspection
- New Infield Hibiscus Parking Garage: Value Engineering Study Constructability



Cyriacks Environmental Consulting Service, Inc.
3001 SW 15th Street, Suite B
Deerfield Beach, FL 33442

PROVIDING THE FOLLOWING SERVICES:
Environmental Consulting

Cyriacks Environmental Consulting Service, Inc. (CECOS) was formed in 2003 to provide public and private sector clients with high quality, professional environmental and ecological consulting services. Wendy Cyriacks, with over 25 years of environmental experience in south Florida, is President of CECOS. CECOS provides a wide range of environmental and ecological consulting services including NEPA documentation, environmental permitting, environmental monitoring and permit compliance, mitigation threatened and endangered species, and the investigation and analysis of impacts to terrestrial, wetland and coastal marine resources in tropical and subtropical environments.

They specialize in providing these services to public sector clients including Palm Beach County Department of Airports, Broward County Aviation Department and Seaport Engineering and Construction (Port Everglades), Miami-Dade County, Florida Department of Transportation, US Army Corps of Engineers (USACE), South Florida Water Management District (SFWMD), and various counties, municipalities and utilities. CECOS professional staff have over 95 years of combined environmental and ecological experience in south Florida.



Dickey Consulting Services, Inc.
1033 NW 6 Street, Suite 206
Fort Lauderdale, FL 33311

PROVIDING THE FOLLOWING SERVICES:
DBE Support

Dickey Consulting Services (DCS) is an economic development, government relations, project management and communications consulting firm. The organization and its associates provide services to public and private enterprises, coordinating, implementing and promoting projects related to economic and community development, government relations, business development, housing, public relations, public involvement, and other marketing initiatives.

DCS provides guidance on development of effective partnerships and achieving collective objectives, working closely with administrators and elected officials to create, implement and promote community/economic development programs, and initiate public involvement, public relations and marketing programs. DCS acts as a liaison on behalf of government officials, negotiating partnerships with legislators, lobbying agenda items and presenting proposed client initiatives. DCS coordinates funding for economic and social policy issues, facilitates involvement and participation in programs to ensure maximum business opportunities for minority and female-owned businesses. The firm coordinates public involvement and public relations programming with various community/civic groups and public officials.

Notable past experience include:

Fort Lauderdale Executive Airport Disadvantaged Business Enterprise (DBE)
2003-Ongoing (As Needed)

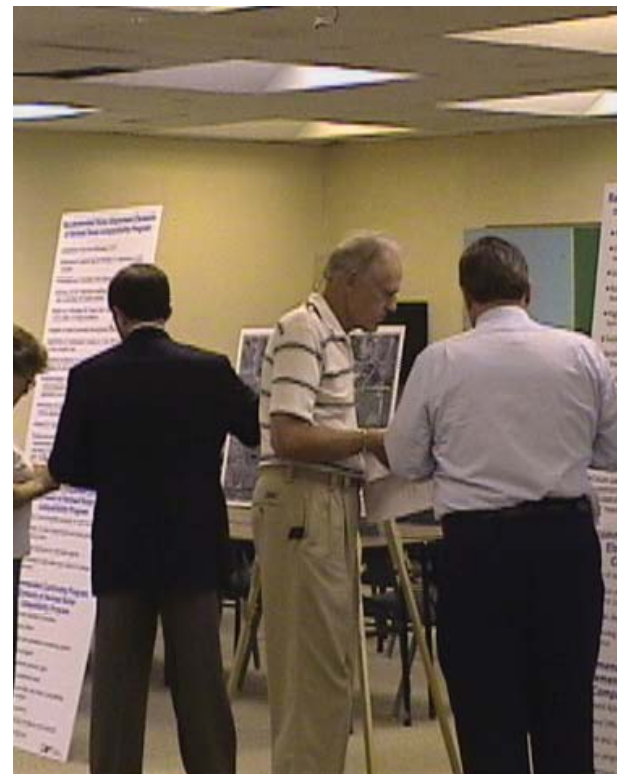
Serve as the DBE Liaison Officer for the Program. Provide DBE monitoring and reporting services. Tasks include gather and report statistical data and other information as required, review third party contracts for compliance with the program, develop DBE forms for monitoring and compliance, review documents and perform interviews as required to monitor DBE compliance, advise City of Fort Lauderdale on DBE matters and achievement, and prepare and submit necessary compliance reports to the City at completion of project.

Palm Beach International Airport (PBIA)
Disadvantaged Business Enterprise (DBE)
2010-Ongoing (As Needed)

Conducted a formal audit of the DBE/SBE programs at PBIA and reported findings to the Airport. Provided on-call extension of staff professional services to monitor and report on DBE Program results

Disadvantaged Business Enterprise (DBE) Program
Administration
2003-Present

Provide DBE Compliance, Monitoring and Reporting Services for the Authority. Gather and report statistical data and other information as required; review third party contracts and purchase requisitions for compliance with the program; participate in project progress meetings when necessary; develop forms for DBE monitoring and compliance reporting; review documents and perform interviews as required to monitor DBE compliance for the project; and prepare and submit FAA-required necessary compliance reports.



ADOLPHINE “DODIE” KEITH-LAZOWICK, P.L.S.

President



Experience Highlights

More than 41 years of surveying and mapping experience

Expertise in preparation of survey data for use in land title transfers, platting, design surveys, right of way and municipal mapping

Education

*Bachelors of Science in Land Surveying
University of Florida, 1982*

Professional Registration

Professional Surveyor & Mapper, Florida (#4105), 1984

Professional Affiliations

Florida Survey and Mapping Society (F.S.M.S.)

Broward County Chapter of F.S.M.S.

American Congress on Surveying and Mapping

National Society of Professional Surveyors

Ms Dodie Keith-Lazowick, with over 41 years of professional experience, succeeds her father, Bill Keith, as a second-generation professional surveyor, President and Managing Principal of the firm. By continuing the civic philosophy and commitment to professional excellence, the firm has grown to over 100 qualified staff members and services Florida as a whole from our Pompano Beach corporate office and regional offices. Ms. Keith-Lazowick handles the daily operations of the firm. She serves as the Corporate Officer for all contracts, assuming responsibility for providing sufficient resource allocations and corporate commitment to our diverse client base.

Ms. Keith-Lazowick's extensive experience in Florida has encompassed many phases of planning, design and construction including Civil Engineering, Surveying and Mapping, Comprehensive Land Planning, Landscape Architecture, Subsurface Utility Locations and Utility Coordination, and Construction Management. As a Senior Project Coordinator-Manager, she has supervised and provided complete development services of both public and private projects for commercial, industrial, transportation, aviation, marine, mixed-use and residential developments. She has particular expertise in governmental liaison and has been extremely successful as an advocate for the permitting and approvals of our projects due to her professional proactive approach of meeting the needs of the owner from concept through implementation.

PROJECT EXPERIENCE

Fort Lauderdale-Hollywood International Airport Professional Consultant Services for Fort Lauderdale-Hollywood International and North Perry Airports, Utilities and Pavement Projects (Prime Consultant): Keith and Associates is providing professional services for design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects, which include construction, rehabilitations and renovation activities.

Fort Lauderdale-Hollywood International Airport - Terminal 4 FIS/ATO Expansion: Ms. Keith-Lazowick served as the Contract Manager for this Construction Management (CM) oversight of the \$40M construction value Terminal Expansion Project. The team was responsible for Maintaining and administering the CM-at-Risk construction contract that included expansion of the Federal Inspection Services (FIS) facilities, upgrades to the baggage handling system, and addition of new airline ticket counters and airline ticket offices (ATO) at Terminal 4.

Fort Lauderdale/Hollywood International Airport – 10R/28L Runway Expansion Lead Design Team (Sub-Consultant to ATKINS): As the Principal Contract Manager, Ms. Keith-Lazowick was responsible for the general oversight and coordination of the preliminary engineering and design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000 foot runway expansion project. Additional responsibilities included the preparation of the Design Criteria Package for the Design/Build portion of the tunnel and bridge section over the FEC Railroad, US 1 and Interstate 595 entrance ramps, all surveying and mapping functions including Utility Coordination and Subsurface Utility Locations and identification. Project scope included both design and construction administration and civil engineering inspections to accept and certify the project.

Fort Lauderdale/Hollywood International Airport – Comprehensive Utility Atlas (Sub-Consultant to RS&H): Ms. Keith-Lazowick serves as the Contract Manager for this extensive 550 + acres project consisting of engineering design surveys, establishing geodetic and vertical control, drainage as-builts, subsurface utility engineering and aerial photography survey support. The utility atlas is an ongoing effort compiling years of historic as-built and record drawing information as well as current surface and subsurface utility infrastructure. New information from ongoing construction projects throughout the airport is being added to the atlas and made available to the airport's consultants and sub-consultants to assist in their design needs.

**Experience Highlights**

More than 15 years of designing and managing environmental, planning, engineering and construction services on more than 40 airport rehabilitation, improvement and expansion projects in the United States, Europe, India and the Middle East.

Expertise in domestic, international and military airfield design and construction.

Education

*B.S. Civil Engineering, 2004
Embry-Riddle Aeronautical University, Cum Laude*

Professional Registration

State of Florida Professional Engineer #70214, 2009

Certifications

LEED® Accredited Professional

Mr. John Thompson has over 15 years of professional experience in design, planning and construction management services dedicated to aviation and airports. His expertise includes airport geometric designs (FAA, ICAO, and UFC criteria), airport planning, airfield obstruction surfaces and applying three-dimensional modeling techniques. Mr. Thompson is also experienced in understanding and applying sustainable designs to airfield projects, including stormwater collection and screening, erosion and sedimentation control, low impact design, material reuse and construction waste management. He is skilled in the preparation of construction plans, specifications, cost estimates and benefit-cost analyses. His construction experience includes submittal reviews/administration, field observation/inspection and contract management.

PROJECT EXPERIENCE

General Consulting Services - Palm Beach County Department of Airports, Palm Beach County, FL (2007–2017): Starting as a Staff Engineer and working through to become Senior Project Engineer and Project Manager, Mr. Thompson completed several tasks in support of General Consulting Services for the 4 airports owned and operated by Palm Beach County Department of Airports (DOA). Mr. Thompson's work included analysis of the storm water management system, tasks associated with the Master Plan Update for each of the four airports: Palm Beach International Airport, Lantana Airport, North Palm Beach County Airport, and Pahokee Airport, analysis of and recommendations for RESA improvements for RW 13/31 at PBI and numerous other tasks.

On-Call Master Civil Engineering Services - Boca Raton Airport, Boca Raton, FL (2010-2015): As Project Engineer for an on-call master civil contract for the Boca Raton Airport Authority, Mr. Thompson completed several continuing tasks including Automated Weather Observation System (AWOS) relocation, jet blast deflector study and installation, airfield service road and perimeter fence improvements.

Airfield Design - Palm Beach International Airport – Major Sub to RS&H, West Palm Beach, FL: Mr. Thompson served as Project Manager for this project which included the culverting of a 3,600 ft x 40 ft canal, rehabilitating and reconstructing of over 180,000 square yards of asphalt and concrete pavements, and relocating and/or reconfiguring three connector taxiways. Estimated construction cost was \$27 million at the Schematic Design Stage.

Taxiway D & E Rehabilitation/Reconstruction - Palm Beach International Airport, West Palm Beach, FL (2013-2016): Mr. Thompson served as Engineer of Record and Resident Project Representative for this project including rehabilitation, reconstruction and new construction of taxiways and connectors including elimination of a "Hotspot" at the intersection of Taxiway E, L and L3 through airfield reconfiguration, relocated taxiway connectors and upgrades to Taxiway E to full ADG III standards. Mr. Thompson examined several construction phasing alternatives to develop an amicable phasing solution balancing constructability, cost, quality and the needs of the airport users.

Construct Taxiway W - Palm Beach International Airport, West Palm Beach, FL (2013-2016): Mr. Thompson served as Engineer of Record for the construction of Taxiway W between Taxiway A and Taxiway F near the Runway 14 threshold was a project critical to maintaining the operational efficiency of PBIA regardless of what future development layout was pursued in the Golfview Development Area (GDA). The completion of Taxiway W provided improved ground traffic flow to tenants in the GDA, reducing the potential for congestion on Taxiway A, Taxiway C and Taxiway F, and increasing the capability of Air Traffic Control (ATC) to segregate taxi traffic. Overall work elements included milling and demolition, drainage, subgrade, subbase and base course construction, paving, construction phasing and maintenance of traffic, electrical and pavement markings.

**Experience Highlights**

More than 40 years of civil engineering, planning and environmental studies experience

Education

*B.S., Civil Engineering,
Northeastern University, 1978*

Professional Registration

*State of Florida Professional
Engineer, #60529, 2003*

Professional Affiliations

*National Association of
Industrial and Office Parks
(NAIOP), Member*

*Institute of Transportation
Engineers, Gold Coast
Chapter, Member*

Mr. Thomas Donahue has more than 40 years of experience in civil engineering projects including 14 years in South Florida. His qualifications include engineering design, quality assurance/quality control management, planning and environmental studies. Mr. Donahue's comprehensive experience includes: residential, commercial and industrial development; site plans; airports; highways; environmental analysis; local, state and federal permitting; right-of-way plans; utility and military designs. Project management experience includes management of professional staff of engineers, landscape architects and CAD personnel; administration; marketing and business development; development of project scope of work; contract negotiations; budgets; scheduling; personnel; quality control; training; presentations; oversight of resident inspectors and surveyors; review and processing of contractor's pay requests; funding reimbursement; and client contact.

PROJECT EXPERIENCE

Roadway Pavement Management Study and Design, Logan International Airport, Boston, MA (MPA 1.717AL) - Through a series of three projects, Project Engineer responsible for researching and preparing a roadway system inventory documenting the construction and maintenance history of all roadway improvements from 1948 to the present. Supervised thorough field inspection of all pavements for pavement distresses, and calculated a pavement condition index report. Developed a plan with recommendations for roadway pavement replacement or maintenance. Prepared construction plans for roadway maintenance and repairs including plans, specifications and estimate.

Pavement Management Study, Logan International Airport, Boston, MA/Hanscom Airfield, Bedford, MA (MPA 1.596) - Research and preparation of a construction and maintenance study of all airfield pavements. Developed airfield-wide layout drawings for use in pavement inspection of two major airfields.

Airfield Drainage Master Layout Plan Study, Logan International Airport, Boston, MA - Comprehensive recording and analysis of complete airfield drainage system from terminal buildings to harbor. Responsible for all research, analysis using StormCAD drainage software, recommendations, report development and presentations.

Second Airfield Lighting Vault Study, Logan International Airport, Boston, MA - Siting study of alternative locations for a planned second electrical vault to serve the airfield's expanding electrical needs. Responsible for analysis of sites in relation to airspace surfaces, environmental buffers, and access to airfield circuits, as well as recommendations, report development and presentations.

South Apron Expansion, Nantucket Memorial Airport, Nantucket, MA - 900-foot by 250-foot expansion of general aviation apron. Responsible for all survey, grading, drainage including use of underground infiltrator system, tie-down alternatives study, plans, specifications, estimates, bid documents, advertising, contract award, federal and state grant applications, and construction supervision.

Taxiway A and D Reconstruction, Barnstable Municipal Airport, Barnstable, MA - Reconstruction of two taxiways that included the oldest pavement on the airport. Responsible for all survey, grading, drainage, plans, specifications, estimates, bid documents, advertising, contract award, federal and state grant applications, and construction supervision.

Runway Extension, ILS Site Preparation and Permits, Knox County Regional Airport, Rockland, ME - Design, permitting and construction of a 500-foot runway extension involving extensive clearing, grading and site preparation in anticipation of the installation of an ILS glide slope, localizer and approach lights. Project included extensive environmental analysis and permitting involving Maine DEP and Corps of Engineers.



Experience Highlights

More than 38 years of experience in the field of land development engineering design and management projects

Expertise in engineering, planning, design, permitting and construction phase services

Education

*B.S. Civil Engineering, 1978
University of Miami*

Professional Registration

State of Florida Professional Engineer #33256, 1983

Mr. James Thiele has over 38 years of experience in performing Land Development Civil Engineering in South and Central Florida, as well as central Pennsylvania. His experience includes all aspects of site planning, grading and drainage, sanitary sewer collection, water distribution system design and construction supervision services. His experience includes senior level project oversight and management of multiple stages of the design and development processes for residential, recreational, commercial, industrial and institutional developments. His ability to reduce complex technical language to readily understandable terms has afforded him numerous assignments representing governmental bodies for the firms he has worked for. Utilizing his vast past experience, he has mentored scores of other Engineers that have gone on to successful noteworthy careers.

PROJECT EXPERIENCE

Fort Lauderdale-Hollywood International Airport (FLL):

-Fort Lauderdale-Hollywood International Airport Professional Consultant Services for Fort Lauderdale-Hollywood International and North Perry Airports, Utilities and Pavement Projects (Prime Consultant): Keith and Associates is providing professional services for design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects, which include construction, rehabilitations and renovation activities.

– Northern and Ravenswood Drainage Study: (Subconsultant to RS&H) With the construction of the new runway and decommissioning of the Westerly runway the County is interested in developing an area of the vacated land of the Westerly runway into commercial lease parcels. In order to consider this the overall drainage system of

the Northerly runway needed to be evaluated with a proposed connection under I-95 to County owned property on the West side of I-95. Keith and Associates performed hydraulic calculations, considered viable options in construction of such an interconnection and developed a detailed report with cost estimates of the various options to route and manage the existing and proposed storm-water run-off.

– Airport Expansion Program Water and Sewer Force Main Relocation/ Up-grades: (Subconsultant to Atkins) The South runway expansion bridges over Federal Highway and requires relocation and up-grade of the existing water distribution system and sanitary sewer force main collection system. Due to the complexity of this project, and the scheduling challenges of the overall project, multiple design packages are developed for this utility design work. The existing 16 inch diameter water main system was replaced with approximately 12,000 ft of 24 inch diameter water main. The sanitary sewer force main relocation/up-grade included approximately 3,400 ft of new 16 inch and 12 inch force main installation.

– Canopy Projects: (Subconsultant to GS&P) Following the hurricanes of 2004, the County desired to replace the shade canopies along the terminal walkways for the upper level ticketing/ departure approach for terminals 1, 2 and 3. Keith and Associates prepared design plans for the demolition requirements of this project and civil design aspects of this project. This project includes installation of a canopy at the Economy Parking area. Keith and Associates is also providing a full time resident project inspector for the construction of this project.

– Noise Mitigation Program Assistance: The Noise Mitigation Pilot Program required that dwellings located on eligible properties be sound insulated to limit noise exposure given the impacts of the new South Runway Expansion project. This project requires Federal Aviation Administration (FAA) compliance and includes project management, acoustical consulting, engineering, and construction management services.

– Irrigation Pipe Extension Project: Over the last several years, the County has used a public water source to irrigate the existing Park on the South side of the airport. They commissioned a study to determine if it is feasible to utilize the existing lake located in US 1 right-of-way near the Northeast corner of the airport. This study determined that this lake can sustain the aforementioned water use. Keith and Associates developed a pipe plan to route and connect the existing lake to the irrigation system at the park. This plan included crossing FEC right-of-way and evaluating all the new infrastructure development along this route that is associated with the new runway construction.



Education

*B.S. in Civil Engineering,
University of North Florida,
2010*

Professional Registration

*State of Florida Professional
Engineer #78625, 2015*

Professional Affiliations

*-ASCE Member
-FES Member
-BIM Smart Foundation
Member
- BuildingSMART Foundation
Member*

Mr. Lazowick was introduced to civil engineering and construction by his grandfather, Mr. Bill Keith, founder of the firm. He is eager for the challenge to be the third family generation professional working to provide quality developments within the South Florida community. His eight years of aviation experience includes project management, drainage design, flood analysis, hydrologic modeling, environmental permitting and construction administration services. Further Mr. Lazowick has in-depth experience with the FAA's Series 150 Advisory Circulars and permitting through SFWMD and BCEPGMD. Mr. Lazowick's field construction supervision and inspection experience includes a diverse array of project classifications from aviation, roadway, recreational, residential, commercial and governmental projects. He has been authorized by Homeland Security for FAA Air-side Airport Access and Escort Clearance and Movement Ramp Driving at Fort Lauderdale Hollywood International Airport and is familiar with Airside Operations policies and procedures. His qualifications include knowledge with AutoCAD Civil 3D, Navisworks, Revit, BIM, ArcGIS and computer networking.

PROJECT EXPERIENCE

Sheltair Parcel 16-C at Fort Lauderdale Executive Airport (FXE): Keith and Associates (KEITH) was responsible for providing planning, landscape architecture, civil engineering design, and permitting for both landside and airside improvements for the proposed Sheltair Facility located on Parcel 16-C at the Fort Lauderdale Executive Airport (FXE). Sheltair obtained a lease with the City of Fort Lauderdale to build a combination of office, hangar, with associated drive aisles, parking, aprons, taxiway

connection, and site utilities at FXE. Access and utilities will be provided from NW 56th Street. Connections to Taxiway Charlie will be provided by designed taxiway connectors 'C4'.

Fort Lauderdale / Hollywood International Airport (FLL):

– **Professional Consultant Services for Fort Lauderdale-Hollywood International and North Perry Airports, Utilities and Pavement Projects (Prime Consultant):** Keith and Associates is providing professional services for design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects, which include construction, rehabilitations and renovation activities.

– **10R/28L Runway Expansion Lead Design Team (Sub-Consultant to ATKINS):** As the Civil Designer, Mr. Lazowick was responsible for the preliminary engineering and final design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000 foot runway expansion project. Project scope included both design and construction administration and civil engineering inspections to accept and certify the project.

– **Northern and Ravenswood Drainage Systems, Broward County, FL (Sub-Consultant to RS&H):** Mr. Lazowick served as a project engineer for the proposed master drainage improvements of the Northern and Ravenswood Systems, a Study area of approximately +/- 395 acres. He helped perform an extensive study of the existing site conditions and solutions for the proposed improvements. This included ICPR stormwater model alternatives, engineering reports, development of construction plans, specifications and a final presentation to BCAD's staff.

– **North Runway (9L/27R) Airfield Modification/High-Speed Exits:** (Sub-Consultant to RS&H) This project included a number of critical construction projects and installation of several safety enhancement features including: Constructing high speed runway exits which will enhance the safety and capacity of the Airport; Installing Runway Status Lights to advise pilots of potential runway conflicts; Widening of taxiways at the east end of the runway; and Relocating Navigational Aids. The work was accelerated by the Broward County Aviation Department and the construction was completed in 13 days early. (2011) Mr. Lazowick provided CEI services checking material and installation observations, determination of quantities, compliance with specifications & coordination with contractor personnel.

– **AGIS Safety Critical Airfield Signage Survey:** (Sub-Consultant to Landrum & Brown) Mr. Lazowick was responsible for the field verification and data collection of all the elevated airport signage on the entire FLL airfield and the population of attribute data within the elevated signs AutoCAD drawings in accord with AC150/5300-18B. This information is utilized for the Airport Layout Plan (ALP) as well as future planning efforts.

LEE POWERS, P.S.M.

Director of Surveying & Mapping



Experience Highlights

Over 13 years of experience in land surveying and mapping in South Florida

Education

B.S. of Land Surveying & Geomatics Engineering, Purdue University, West Lafayette, Indiana 2005

Professional Registration

Florida Professional Surveyor & Mapper, #6805 (Obtained 2010)

Professional Affiliations

BIM Smart Foundation Member

BuildingSMART Foundation Member

Florida Society of Professional Surveyors & Mappers

Certifications

Transportation Worker Identification Credential (TWIC)

FDOT Maintenance of Traffic

Mr. Lee Powers has over 13 years of experience in land surveying and mapping in Florida. He has worked with many local municipalities and government agencies to create and/or modernize their GIS Systems. He has also performed construction, right-of-way, control, ALTA, boundary, as-built and topographic (both acreage and coastal) surveys. He has extensive laser scanning experience with a particular emphasis on architectural modeling, historical preservation and infrastructure monitoring. He is well-versed in the scan-to-model workflow, regularly coordinating our BIM/VDC staff to ensure a quality and accurate model. Mr. Powers has extensive Project Management experience for large-scale projects and continuing service type contracts for both public and private sector clients. He is knowledgeable in the use of a wide range of state-of-the-art surveying equipment and associated computer technologies. He has extensive experience in field crew supervision, quality control and client relations.

PROJECT EXPERIENCE

Various Taxiway Rehabilitation Projects at Fort Lauderdale Executive Airport (FXE), Fort Lauderdale, Florida: For rehabilitation of Taxiways Charlie, Delta, Echo and Foxtrot, performed topographic surveys as per FAA A/C 150/5300-16A, 17B and 18B and successfully uploaded information to the FAA GIS database.

GIS Services for the Broward County Aviation Department, Fort Lauderdale, FL: As a subconsultant, Keith and Associates is responsible for CAD-to-GIS data conversion, CAD data submittal standards and FAA airport GIS support. Data entries and updates are carried out as per FAA AC 150/5300-18B and subsequent updates are submitted through the FAA's Airport Geographical Information System (AGIS) online portal. As a result of the team's work, all BCAD departments have accesses to different online portals relevant to their work descriptions. With every BCAD asset being updated with the appropriate object data, BCAD Maintenance is already seeing a huge time and budget savings. In addition the Planning and Capital Improvements Departments can quickly use utility, parcel, terminal, gate stands and other load information to help quickly plan and layout projects.

Fort Lauderdale-Hollywood International Airport (FLL), Fort Lauderdale, FL:

- **Utility Atlas Update for South Runway Expansion 9R/27L:** As subconsultant to RS&H, Keith & Associates, Inc. was tasked with providing the preconstruction design survey, horizontal and geodetic control surveys and aerial photography survey support. Mr. Powers served as the Project Surveyor, in which he established Primary Airport Control Station (PCAS) and Secondary Airport Control Station (SACS) Monuments in accordance with the

FAA Advisory Circular 150/5300-16A. He also completed the processing and Blue Booking procedures for publication of the monuments in the National Geodetic Survey registry.

- **Fort Lauderdale-Hollywood International Airport (FLL) Terminal 1 Modernization and Concourse A, Fort Lauderdale, FL:** KEITH completed a 3D laser scan of the terminal while under construction to determine the location of the structural framing members that would eventually support a heavy art installation piece meant to be suspended from the ceiling. Taking the scanning data, KEITH then modeled the structural supports, complete with support holes and notches, which were then used by the artwork installation team to fabricate the hanging pieces.

Space Coast Regional Airport Runway Improvements, Titusville, FL: Mr. Powers provided design survey of the runway ends for this runway rehabilitation project. Included detailed elevation model and existing airport striping, signage and lighting inventory.

Merritt Island Airport Hangar, Merritt Island, FL: To facilitate the design of a modern hangar system Mr. Powers provided a design survey of the area around the existing hangar. Including elevation model and detailed survey of drainage system.

DANIEL M. CHECCHIA

Director of Subsurface Utility Engineering



Experience Highlights

Over 21 years of experience in Transportation engineering, surveying, subsurface utility locating and utility coordination services.

Education

AS of Applied Science in Construction Technology, Suffolk County Community College, 2008

Certifications

FDOT Maintenance of Traffic

Affiliations

Transportation & Expressway Authority Membership of Florida (TEAM FL)

Florida Utility Coordination Committee (FUCC)

Mr. Checchia has over 21 years of experience in transportation engineering, surveying, civil design and construction related fields, with expertise in Subsurface Utility Engineering (SUE), including Utility Coordination. His duties are to oversee the day-to-day operations of all Subsurface Utility Engineering and Coordination projects for our firm. Mr. Checchia is responsible for assisting clients with utility research, identification, data management and coordination. In addition to having developed a strong rapport with local utilities and municipalities, his knowledge and experience in the Subsurface Utility Engineering process allows him to easily recognize utility conflicts during design and construction. He has been involved on a variety of projects such as design, design build and private sector work. Mr. Checchia is fully knowledgeable of the FDOT Utility Coordination process. His philosophy is to maintain an open and productive dialogue throughout the initial investigation; detailed coordination and post-design follow up.

PROJECT EXPERIENCE

Ft. Lauderdale-Hollywood International Airport, Broward County: Mr. Checchia, as Senior Project Manager, was tasked with providing the providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant on many projects for the airport such as:

- **Phase 1 Utility Atlas Update for South Runway Expansion of 9R/27L:** (Subconsultant to RS&H) All work and deliverables were performed in accordance with Airport Circulars 150/5300-18B General Guidance and Specifications for Aeronautical Surveys. Mr. Checchia was responsible for overseeing the designation, collection and depiction of all existing utility infrastructure to create the FLL utility atlas. Utilities were designated, mapped and labeled in accordance with the ASCE 38-02 guide lines.

- **Phase 2 Utility Atlas Update for South Runway Expansion of 9R/27L:** (Subconsultant to RS&H) All work and deliverables were performed in accordance with Airport Circulars 150/5300-18B General Guidance and Specifications for Aeronautical Surveys. Mr. Checchia was responsible for overseeing the designation, collection and depiction of all existing utility infrastructure to create the FLL utility atlas. Utilities were

designated, mapped and labeled in accordance with the ASCE 38-02 guide lines.

- **Westside Development Utility Certification Project:** (Subconsultant to RS&H) Mr. Checchia directed multiple crews in order to identify existing utilities to be mapped and incorporated into the plans.
- **Terminal 4 Fuel Line Relocation Design:** (Subconsultant to EAC Consulting) Mr. Checchia was responsible for overseeing the designation and identification of existing utilities along the proposed fuel alignment. Designated utilities were marked and identified via vacuum excavation to confirm locations. Utilities were designated, located, mapped and labeled in accordance with the ASCE 38-02 guide lines.
- **9R/27L Runway Expansion Lead Design Team:** (Subconsultant to Atkins) Mr. Checchia was responsible for designating and locating of existing utilities for the design of south runway. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.
- **Perimeter Road Water & Sewer Utility Improvements:** (Subconsultant to EAC Consulting) Mr. Checchia provided professional services associated with topography surveying and subsurface utility locations for the proposed upgrades of the potable water distribution and sanitary sewage transmission system along North Perimeter road (SW 34th Street), along South Perimeter Road at the FLL Airport.
- **Eastside Watermain Improvements:** (Subconsultant to EAC Consulting) Mr. Checchia was responsible for supervising the designation and location of existing utilities for the eastside Watermain improvements along perimeter road. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.
- **Lift Station Upgrades:** (Subconsultant to EAC Consulting) Mr. Checchia was responsible for the identification of sanitary lines and forcemains associated with the proposed lift station upgrades.

JONATHAN P. WEYMOUTH, P.E.

Senior Engineering Construction Manager



Experience Highlights

More than 28 years of Civil Engineering design and construction experience in South Florida

Registration

State of Florida Professional Engineer No. 52802, 1998

Education

B. S. in Architectural Engineering, University of Miami, 1990

Professional Certifications

OSHA 10-Hour Safety Certification

Mr. Jonathan Weymouth has more than 28 years of experience in the planning, design, permitting and construction of heavy transportation, utility as well as all types of civil and environmental engineering projects. His work involves the supervision of engineering and technical personnel engaged in the design and construction of public and private sector improvements. Past projects include major transportation infrastructure projects such as airports, bridges, highways and roadways. This is in addition to civil land development, recreational facilities and environmental mitigation projects. Specific area of expertise include earthwork and embankments, stormwater management, concrete and asphalt pavements along with communication, potable water distribution and sanitary sewer collection systems. Additionally, he has extensive knowledge and effective experience coordinating with FEC, as well as with permitting and federal agencies such as FDOT and FAA. He is very familiar and fully qualified to implement and control the guidelines and requirements established by these agencies.

PROJECT EXPERIENCE:

FLL's 10R/28L South Runway Expansion Project: As subconsultant to Atkins, Mr. Weymouth was the Resident Lead Design Representative (RLDR) for the design and construction of the new 8,000-foot South Runway, parallel Taxiway J and Crossfield Taxiways. This project required the coordination of multiple construction contracts along with other Broward County Aviation Department (BCAD) on-going airside construction projects, while maintaining an operational airfield. Duties and responsibilities included field observation during the construction, weekly observation reports to the Owner which addressed opinions of the construction conformance to the plans and specifications, facilitation of the reviews of shop

drawings, Contractor's Requests for Information (RFI) and development of the Supplement Information (SI) to the Contractor. Also included was review of Contractor as-built plans to determine general adequacy in documenting field changes and assist each Engineer-of-Record with the final Record Drawings. The RLDR also reviewed Contractor pay requests, field changes, field directives, change orders and participated in conflict resolution, as well as reviewed daily inspection reports and test results. The three design-bid-build construction work packages totaled over \$325 million dollars of airfield new construction.

FLL's Concourse A and Apron Project: Design Project Manager for Broward County's design of 250,000-SF of terminal apron with hydrant fueling system and taxiways project. This project originally included a five-gate concourse totaling 121,000 SF with a 705-LF connector to Terminal 1 and associated utilities. The contract was a 6-year project with an estimated construction cost of \$45 million dollars.

FLL's Task II – Roadway Landscaping and Aesthetic Improvement Project: Design and Construction Project Manager for Broward County's Design/Bid/Build Contract, a 10-year project with an estimated construction cost of \$5.5 million dollars. The project provides landscaping and aesthetic improvements for the US-1 Right-of-Way from I-595 to Griffin Road. In addition, it included tree canopy mitigation for all of the Airport Expansion Program (AEP) projects. The landscaping and aesthetic improvements covered approximately 90 acres of Florida Department of Transportation (FDOT) Right-of-Way which provide a unique gateway into the Airport.

FLL's Taxiway C and Westside Infrastructure Project: Key technical support engineer for the permitting, construction management and close-out for the new 4,500-foot Taxiway C and connectors and Westside major utilities improvement project. The infrastructure improvements included the new FAA duct bank and re-alignment of Perimeter Road.

**Experience Highlights**

*More than 21 years of
roadway construction
inspection*

*Expertise in preparation of
daily construction reports on
asphalt paving, land
surveying, earthwork
construction and utility
relocations*

Education

*B.S., Business Administration,
Florida Memorial College,
Miami, FL, 2000*

Professional/Certifications

*- FDOT CTQP Asphalt Paving
Technician Level 1
- FDOT CTQP Earthwork
Construction Inspection Level 1
- FDOT CTQP Concrete Field
Technician, Level 1
- ACI Concrete Field Testing
Technician, Grade I
- Troxler Nuclear Gauge
- FDOT Workzone Traffic
Control Intermediate Level
MOT
- OSHA 10-Hour Safety
Certification*

Mr. Morris Smith joined the firm in 2003 and has more than 21 years of experience in roadway and utility construction inspection. He has overseen daily construction activities relating to earthwork construction, asphalt paving, land surveying, utility relocations, concrete pours, and fuel line and drainage pipe installation. Mr. Smith's experience includes preparing daily inspection reports on all activities, job progression, personnel and equipment as well as interfacing with contractors on behalf of clients and accountability for job site coordination. His current capacity of Senior Construction Inspector requires monitoring and inspection of all phases of construction work, as well as coordination with clients, contractors, public agencies, utilities and affected property owners.

PROJECT EXPERIENCE**Fort Lauderdale/Hollywood International Airport Capital Improvement Projects:**

Mr. Smith served as a Senior Construction Inspector under our subconsultant agreement with the General Engineering prime consultant for this ongoing contract. He provided various CEI functions for multiple construction projects such as:

- **Perimeter Road Improvements:** Inspected lane widening, guard rail installation, pavement markings and signage for Perimeter Road improvements.
- **Taxiway C West Reconstruction:** This project is a taxiway reconstruction approximately 2,600-feet long, from Taxiway Delta to the west end of 9-Left, which includes asphalt, earthwork, lighting, signage pavement markings, and drainage. Mr. Smith provided all CEI services checking material and installation observations, determination of quantities, compliance with specifications & coordination with contractor personnel.
- **North Runway (9L/27R) Airfield Modification / High-Speed Exits:** This project included a number of critical construction projects and installation of several safety enhancement features including: Constructing high-speed runway exits which will enhance the safety and capacity of the Airport; installing Runway Status Lights to advise pilots of potential runway conflicts; widening of taxiways at the east end of the runway; and relocating navigational aids. The work was accelerated by the Broward County Aviation Department and the construction was completed in 13 days early.
- **Taxiway C and C2 Interconnector:** This project included construction work related services for extending Taxiway C and C2 East End – Phase II and Repackaged Airfield Enhancements.

• **Runway 13/31 Rehabilitation Project:** This project included full depth reconstruction of touchdown intersections at Taxiway "A" and Taxiway "C" and consists of milling and resurfacing at the North approach end of Runway 13/31 at Taxiway "C" and Taxiway "D" areas. Mr. Smith provided all CEI services, checking material with specifications & coordination with contractor personnel.

Fort Lauderdale/Hollywood International Airport Expansion Program III (AEP3): Mr. Smith served as a Senior Construction Inspector under our subconsultant agreement with the program management prime consultant for this ongoing project. He provided various CEI functions for multiple construction projects under the County's airport expansion program such as:

- **Terminal 4 Expansion:** Performed inspections on the new concrete apron and Taxiway "T" to facilitate 14 new gates, inspections included airfield lighting system, asphalt paving, concrete paving, drainage, sanitary sewer, forcemain and lift station installations, pavement markings.
- **Taxiway C and Westside Infrastructure:** This project is a new taxiway construction 5,000-feet long which includes earthwork, lighting, signage pavement markings, asphalt, drainage and utilities (water and sewer) relocations. Mr. Smith provided all CEI services checking material and installation observations, determination of quantities, compliance with specifications & coordination with contractor personnel.

PAUL WEINBERG, PLA, ASLA

Vice President of Planning and Landscape Architecture



Experience Highlights

More than 18 years of landscape architecture and design

Education

Bachelor of Science, Landscape Architecture, Michigan State University, 2000

Registration

Registered Landscape Architect, State of Florida, #LA6666804 (2005)

Council of Landscape Architecture Registration Boards (CLARB Certified)

Professional Affiliations

Urban Land Institute, Member

American Society of Landscape Architects (ASLA), Member

American Resort Development Association (ARDA), Member

Riverwalk Trust, Board Member

MSU Landscape Architecture Advisory Board, Board Member

Mr. Paul Weinberg, PLA, is a multi-talented designer and team leader who has been based in South Florida since 2000. During this time, he has worked with a variety of significant public sector projects including urban parks, plazas, streetscapes and waterfront projects that provide meaning and purpose to the community. He has a unique understanding of how to create immersive and memorable public spaces that strengthen civic identity to bring vitality to the larger area. Mr. Weinberg works with artists and other consultants with innovative skills to create transcendent spaces. He is committed to a team-based approach that delivers creative, thought-provoking solutions tailored to the distinct character of each project.

PROJECT EXPERIENCE

Palm Beach International Airport Feature Signage and Landscape Design & Bidding Services:

Keith and Associates provided landscape architecture and planning services for the improvements to the perimeter and entrance signage appearance with landscaping, as well as additional signage upgrades surrounding the airport. KEITH's designers created two concepts for the main signage; one option represented a connection with PBIA's past and present, while the other option represented more elegance and sophistication matching the new PBIA logo.

Terminal 1 Modernization Concourse A at Fort Lauderdale-Hollywood International Airport (FLL) (Fort Lauderdale, Florida):

Keith and Associates (KEITH) as a subconsultant partner to CORGAN Aviation, provided Civil Engineering, Landscape Architecture, Survey and Subsurface Utility Engineering (SUE) services for the modernization of Terminal 1, including centralized TSA checkpoint alterations, a new five gate Concourse A addition with a Federal Inspection Services (FIS) facility and other enabling projects. KEITH designed Landscape and Irrigation Plans for the multi-story ellipse and the 'Meet and Greet' area of the terminal. The landscape consists of Florida-friendly shrub beds with lush foliage and colorful accent plantings with a mix of slender Montgomery Palms between stately Royal Palms that enhance this eye-catching structure. Irrigation plans were designed to provide coverage for the landscape beds and turf areas surrounding the new terminal grounds. Additionally, KEITH provided bid assistance and responses to RFI's related to landscape and installation/construction observation service for quality and quantity control of plant species and design intent, as specified in plans.

Lake Worth Beach Complex, Lake Worth, FL: Mr. Weinberg is leading the landscape architecture and planning design effort for the renovation of the city's beach complex. He is a key member of the overall design team responsible for developing conceptual designs that incorporate various aspects of the existing facility as the City looks to

refurbish and/or new construction of facilities at the complex including the pool, casino and parking.

DC Alexander Park Improvements, Fort Lauderdale, FL: The DC Alexander Park is viewed as the "front yard" of the Fort Lauderdale Aquatic Center and occupies a prominent location on Fort Lauderdale Beach. Mr. Weinberg is leading the design, planning and permitting of this improvement project in conjunction with the City's CRA. He is managing a multi-disciplinary team to create a legacy project that will serve as an iconic, memorable place.

Fast Forward Fort Lauderdale Design and Construction Manual, Fort Lauderdale, FL: Keith and Associates is working with renowned architecture firm Brooks + Scarpa to develop a design and construction manual for a sustainable and resilient community and cohesive public realm that could potentially impact every facet of infrastructure and design within the city. Mr. Weinberg is responsible for the planning and landscape architecture elements of the manual.

MICHAEL J. VONDER MEULEN, AICP

Senior Planner



Experience Highlights

More than 28 years of planning, zoning and project management experience

Expertise in zoning ordinances, site planning, comprehensive and current planning and project management

Education

Bachelors of Urban Planning Degree, University of Cincinnati, Ohio, 1986

Achievement of Professional Practice Certificate, University of Cincinnati, Ohio, 1986

Graduate Studies, Florida Atlantic University, Boca Raton, FL, 1993-1995

Professional Registration

American Institute of Certified Planners Certificate #9153, Washington, DC, 1991

Professional Affiliations

Urban Planner Representative for the City of Fort Lauderdale CRA Board (2012-Present)

Urban Land Institute (2004-Present)

American Planning Association (1982-Present)

Editor, Broward Planning, American Planning Association Section Newsletter (1994)

Mr. Michael Vonder Meulen has over 28 years of local, national and international experience in urban planning, zoning and project management systems. Since 1986, Mr. Vonder Meulen's experience has included many phases of Public Sector and Private Sector Land Planning, Site Planning and Permitting services. He has directed project services, from planning, design and construction management throughout the United States, Caribbean and Brazil. He has drafted numerous zoning text amendments for many cities throughout South Florida including new and revised residential, commercial, educational, mixed use and transit oriented districts, density monitoring systems (DMS) and transfer of development rights (TDRs). Mr. Vonder Meulen also has extensive comprehensive planning experience preparing many Comprehensive Plans, Evaluation and Appraisal Reports (EARs) and Comprehensive Plan updates and amendments. He also has experience with grant writing in which he was awarded grants for more than \$9 million including Florida Recreation Development Assistance Program (FRDAP), Land and Water Conservation Fund (LWCF), and Intermodal Surface Transportation Efficiency Act (ISTEA).

PROJECT EXPERIENCE

FLL Airport Master Plan: Keith and Associates prepared a draft Comprehensive Plan Amendments for the Comprehensive Plan of Broward County, City of Fort Lauderdale, City of Hollywood and City of Dania Beach for consistency with Florida State Statutes and the FLL Airport Master Plan. Requirements included reviewing all existing goals, objectives and policies of each Comprehensive Plan and preparing draft amendments to address; including references to the FLL Airport Master Plan and address and deficiencies with the existing Comprehensive Plans.

Sheltair Parcel 16-C at Fort Lauderdale Executive Airport (FXE): Keith and Associates (KEITH) is responsible for providing planning, civil engineering design and permitting for landside and airside improvements for the proposed Sheltair Facility located on Parcel 16-C at FXE. Sheltair obtained a lease with the City of Fort Lauderdale to build a combination of office, hangar (with associated drive aisles), parking, aprons and site utilities at FXE. KEITH obtained FAA Approval for the filing of Notice of Proposed Construction (Form 7460-1 and Form 7460-2) for the proposed Sheltair Aviation hangar. KEITH developed two airspace plans outlining the building, crane placement and crane operational limits, and displayed architectural building elevations for height information correlated to mapped points on the airspace plans.

Oceanside Fire Station (Station #11), Pompano Beach, Florida: Keith and Associates is working with a team of consultants with the primary responsibility of surveying and platting to construct a new barrier island Oceanside Fire Station (Station # 11) in Pompano Beach. The proposed site required a land use plan amendment, rezoning, platting and site plan approval before the station could be permitted. Keith and Associates coordinated with City staff and other consultants to properly time the plat approval in conjunction with the plan amendment as well as coordinating with the architect and FDOT for the plat opening along A-1-A for the fire station driveway.

City of Deerfield Beach Industrial Zoning Ordinance: As part of our continuing contract with the City of Deerfield Beach General Engineering Consulting services, Keith and Associates provided support to the City with industrial zoning classification regulations and requirements as related to Waste/Waste Transfer/Recycling/Scrap Yard Facilities. Services included research, zoning code modification language and stakeholder and/or City regulatory meetings (DRC, P&Z, Commission, etc.).

STRUCTURAL ENGINEER

Responsibilities

Mr. Carrigan's entire career has been focused on aviation consulting services. He has extensive experience as a Structural Engineer on a variety of airport facilities projects, including airport terminal expansions, fire fighting rescue facilities, corporate hangar facilities, aesthetic roadway canopies, multistory parking garages, airfield drainage structures, and structural investigations and repairs at airports nationwide.

Experience

New Terminal Project, General Wayne A. Downing Peoria International Airport, Illinois

Structural Design Quality Assurance Leader. A new 118,000-square-foot terminal on a site within the existing Airport property. Scope of work includes a new terminal building, security system upgrades, access control, revenue control system and structure with landside and airside development, Consolidated Rental Agency Complex (CONRAC) relocation and existing terminal redevelopment. Performed quality assurance and quality control reviews for all structural engineering design deliverables.

Professional Services: 2011; Construction: 2011

Terminal Airside Expansion, Bishop International Airport, Flint, Michigan

Project Manager. The project was a multi-package delivery of a nearly \$20 Million expansion and renovation program to the existing concourse and passenger screening checkpoint, adding over 50,000 square feet and four gates to the existing terminal facility. The program involved extensive planning, phasing and sequencing to maintain terminal operations.

Professional Services: 2012; Construction: 2012

General Consulting Services, Broward County Aviation Department, Fort Lauderdale, Florida

Project Manager. With RS&H in a sub role with direct client contact, this contract includes an assortment of engineering, architectural, planning and environmental-related services at FLL and North Perry Airport. Consisted primarily of the development of construction documents (from the planning stage to bid and award) for various projects with follow-on construction administration services. Included studies, engineering reports with CIP forecasts, permitting and analyses for various magnitudes and complexities.

Professional Services: Ongoing; Construction: Ongoing

Concourse Replacement, Jacksonville International Airport, Jacksonville, Florida

Structural Engineer. Structural design for a 270,000-square-foot, dual-concourse replacement, including full construction administration.

Professional Services: 2005; Construction: 2010

New Aircraft Rescue and Fire Fighting (ARFF) Station, Lynchburg Regional Airport, Lynchburg Virginia

Structural Engineering. The project involved structural design and coordination for a new, two-story, two-bay ARFF Station adjacent to the terminal.

Professional Services: 2008; Construction: 2009

Education

Bachelor of Civil Engineering/Civil Engineering

Current Professional Registration (State And Discipline)

Professional Engineer: FL, AZ, GA, MI

Professional Structural Engineer: IL, UT

LEED® AP Building, Design and Construction, U.S. Green Building Council, 2010

LEED® Accredited Professional, U.S. Green Building Council, 2008

Certified, OSHA Construction Safety and Health, United States Occupational Safety and Health Administration, 2005

RS&H

MARK WILCER, AIA

ARCHITECT

Responsibilities

Mr. Wilcer has extensive experience with architectural design of aviation facilities, FAA requirements, procedures, and personnel. He has more than 36 years of experience in providing design, management, and construction administration services for public and private projects. He has extensive experience in coordinating multi-firm design teams for major design assignments. Mr. Wilcer maintains an excellent relationship with FAA staff and is actively sought for architectural design oversight across RS&H's Aviation Practice.

Experience

New Aircraft Rescue and Fire Fighting Facility (ARFF) Building, Akron-Canton Airport, Ohio

Project Manager and Architect. Project included the design of a new 36,000 sq. ft. ARFF building, parking lot, access roads, fuel farm, lighting, earthwork, grading and drainage improvements, fencing, roadside barrier, pavement markings and signage.

Professional Services: 2013; Construction: 2013

Maintenance Facility, Indianapolis International Airport, Indianapolis, Indiana

Project Manager. Project consists of the third phase of a planning study to develop a new maintenance complex and supporting facilities.

Professional Services: 2016; Construction: N/A

Federal Inspection Facility, Newport News/Williamsburg International Airport, Newport News, Virginia

Project Manager. Design a new 10,000-square-foot Federal Inspection Station facility for the DHS Customs-Border Protection (200 passengers per hour) in an existing area of the terminal. Work included coordination with multiple Federal Agencies, locally and nationally.

Professional Services: 2013; Construction: 2013

New Terminal Complex, MBS International Airport, Freeland, Michigan

Project Manager. New 75,000-square-foot terminal on a Greenfield site within the existing Airport property. Scope of work includes a new terminal building, security system upgrades, access control, revenue control system and structure, landside, and airside development. A Categorical Exclusion for the terminal development, Section 106 for State Historic Preservation Officer review concurrence, was completed in support of the project.

Professional Services: 2010; Construction: 2012

Corporate Gangar Development, Midway International Airport, Chicago, Illinois

Project Manager. Developed the overall design plan for expansion of an existing corporate charter service facility, including equipment storage facility, resignalization plan development, hangar, and support-facility expansion along with airside tenant lease space modifications designed to improve operations. *Professional Services: 2005; Construction: N/A*

Taxiway, Apron, Employee Parking, Ready Rental, and Passenger Parking Facility With Revenue Control Facility, MBS International Airport, Freeland, Michigan

Project Director. Coordinated development to assure aircraft parking configurations, passenger, staff, and rental fleet parking areas met client needs. Also provided lease space modifications designed to improve operations.

Professional Services: 2014; Construction: 2016

Education

Bachelor of Architecture, University of Illinois, 1979

Current Professional Registration (State And Discipline)

Registered Architect: IL, IA, MI, MN, TX, WI

MECHANICAL AND PLUMBING ENGINEER

Responsibilities

Mr. Nix has been responsible for the mechanical design of various projects including aviation terminals, baggage systems, FBO renovations, CBP facilities, and fire stations. He has served as the Project Manager, Lead Mechanical Engineer, and Commissioning Authority on numerous projects for various aviation clients.

Experience

Terminal Improvements, Greenville/Spartanburg International Airport, Greer, South Carolina

Mechanical Engineer-of-Record. Project includes a multi-packaged renovation to the existing main terminal and concourses. The main terminal dining, screening, ticketing, and baggage claim areas are completely replaced. The project involves extensive phasing coordination and replacement of nearly all mechanical and plumbing systems; sustainability systems focused on solar water heating and rainwater harvesting.

Professional Services: 2013; Construction: 2015

Terminal A Renovations, San Antonio International Airport, San Antonio, Texas

Mechanical Engineer. Involves the renovation of a 406,000-square-foot passenger terminal and 17-gate concourse. Modernization of the facility involves building systems replacement, operational restructuring of TSA passenger checkpoint, concessions, baggage claim/ticketing, and upgrade of architectural finishes throughout. Also includes vertical transportation replacement and renovations to CPB/FIS.

Professional Services: 2014; Construction: 2014

New Terminal, Albert J. Ellis Airport, Jacksonville, North Carolina

Mechanical Engineer-of-Record. Project includes a new 66,000-square-foot terminal and concourse. Terminal design includes one ground loading and three contact gates and operation capability for three airlines. Landside improvements include existing access loop road realignment, new rental car and employee parking, and utilizes existing parking. Airside improvements include new aircraft apron for four parking positions and a new taxilane.

Professional Services: 2014; Construction: 2015

Reclaimed Water System Expansion, Tampa International Airport, Tampa, Florida

Mechanical Engineer. Project consisted of the extension and expansion of the reclaimed water system on-site to serve existing central cooling tower plants.

Professional Services: 2013; Construction: 2013

Landmark FBO Interior Renovations, Tampa International Airport, Tampa, Florida

Mechanical Engineer-of-Record. Project included interior renovations and mechanical system renovations including chiller replacement and upgrade of building HVAC control systems. Project is pursuing LEED-CI certification.

Professional Services: 2013; Construction: 2013

Education

Bachelor of Science/Mechanical Engineering

Current Professional Registration (State And Discipline)

Professional Engineer: FL, AL, AR, AZ, CA, CO, GA, IA, IL, KY, MN, MO, MS, NC, ND, NJ, NY, OH, OR, SC, TN, TX, UT, VA; US / NCEES

MIKE STRICKER, PE

AIRFIELD CIVIL ENGINEER

Responsibilities

Mr. Strickler has aviation-focused design and construction experience providing project engineering services on a variety of projects which encompass all aspects of engineering design and construction administration. His responsibilities consist of extensive airfield project design and development including all aspects of grading, drainage, geometry and pavement design, as well performing construction inspection and management on numerous airfield projects of all types.

Experience

Concourse E Airside Improvements, E Satellite Apron Modifications, Pavement Repair and Markings Package and Passenger Boarding Bridge Installation, Miami International Airport, Miami, Florida

Project Engineer. Project consisted of the relocation of sections of fuel line, reconstruction of aircraft gate parking aprons and installation of passenger boarding bridges. Duties consisted of oversight of inspection companies for separate portions of the construction project, inspection of electrical item construction, and inspection of boarding bridge installation.

Professional Services: 2016; Construction: 2017

Runway 10R-28L Expansion, Crossfield Taxiways and Holdpad Paving, Lighting and Signage Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, Florida

Project Engineer. Project consisted of the installation of the pavements and electrical systems for the construction of Runway 10R-28L. Duties consisted of processing and reviewing contractor submittals, site visits to review quality acceptance, and development of Supplemental Information for the contractor.

Professional Services: Ongoing; Construction: Ongoing

Taxiway C West and South Apron Reconstruction, Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, Florida

Project Engineer/Lead Resident Project Representative. Project consisted of the reconstruction of the structural pavement of the west end of the Taxiway C, which was due to pavement failures. Duties consisted of managing inspection of all construction activities, review of contractor submittals, coordination of acceptance testing, and providing coordination between the contractor and the staff from the various Airport entities.

Professional Services: 2011; Construction: 2014

East General Aviation Apron Relocation, Brunswick Golden Isles Airport, Brunswick, Georgia

Project Engineer. Project consisted of a substantial expansion of the existing concrete apron for hangar expansion along with associated connecting taxiways and vehicle parking areas. Duties consisted of development of a full project design from initial concept to final bid package, coordination with multiple offices for separate disciplines within the project design, and development of bid addenda.

Professional Services: 2017; Construction: Ongoing

Runway 17-35 Reconstruction, Pensacola Regional Airport, Pensacola, Florida

Engineering Inspector. Reconstruction of an existing 7,000-foot concrete air carrier runway including the active 17-35/8-26 Runway intersection and three associated concrete taxiways. Construction inspection duties were performed for concrete placement, asphalt paving, drainage pipe and structure placement, grading, airfield lighting installation, and grassing operations.

Professional Services: 2006; Construction: 2008

Education

Bachelor of Science / Civil Engineering

Current Professional Registration (State And Discipline)

Professional Engineer: FL

GRANT SUPPORT

Responsibilities

Mr. Overby is a Senior Aviation Engineer and Project Manager with more than 21 years of dedicated aviation experience. His career encompasses planning, design, project management, and oversight of airside civil engineering projects. As a client manager for airports throughout Florida, Mr. Overby has assisted with numerous FAA Pre-Applications and Grant Applications. Additionally, when requested, Mr. Overby has attended capital programming meetings with airport clients, FDOT, and FAA representatives. Mr. Overby's experience has been focused on airports throughout the southeast.

Experience

Runway 17-35 Reconstruction, Pensacola Regional Airport, Pensacola, Florida

Project Engineer. Project Engineer. Reconstruction of an existing 7,000-foot concrete air carrier runway including the active 17-35/8-26 Runway intersection and three associated concrete taxiways. Construction inspection duties were performed for concrete placement, asphalt paving, drainage pipe and structure placement, grading, airfield lighting installation, and grassing operations.

Professional Services: 2006; Construction: 2008

Runway 9-27 Reconstruction, Tallahassee International Airport, Tallahassee, Florida

Project Manager. Project Manager. Consists of earthwork to re-profile the runway to FAA design standards and replacement of all runway lights and signage, including taxiway guard lights at runway/taxiway intersections. Provided project management and was Engineer-of-Record services for the reconstruction of Runway 9-27 and the extension of Runway 18-36. Grant management responsibilities included FAA coordination for a multi-year funding project including a reimbursable agreement for NAVAID relocation.

Professional Services: 2011; Construction: 2014

Taxiway N Reconstruction, Daytona Beach International Airport, Daytona, Florida

Project Manager. Provided design services which indicated a new pavement section and modified portions of the centerline profile. These changes allowed the reconstructed pavement to withstand storm events that has previously closed the Taxiway. Construction included multiple FAA grants and years. Mr. Overby coordinated with FAA and FDOT to obtain grants to coordinate with construction phasing which minimized construction time and operational impacts.

Professional Services: 2014; Construction: Ongoing

Runway 18-36 Rehabilitation, Ocala International Airport, Ocala, Florida

Project Manager. Provided design and construction services within an accelerated schedule to meet FAA funding. The project consisted of milling the oxidized and raveled surface, constructing a two-inch overlay, and grooving the pavement.

Professional Services: 2008; Construction: 2009

Runway 8-26 Rehabilitation, Ocala International Airport, Ocala, Florida

Project Manager. Provided design and construction services for a cold-in-place recycling runway rehabilitation. The project was originally programmed to be a joint sealing project that would have been a temporary solution. RS&H along with Mr. Overby evaluated existing pavement cracking along the general aviation runway. Upon review, Mr. Overby and Airport staff met with FDOT representatives to obtain additional funding to provide a long term solution versus a joint sealing project that would be a temporary solution.

Professional Services: 2013; Construction: 2013

Education

Master of Science in Civil Engineering, Michigan State University
Bachelor of Science in Civil Engineering, Michigan State University

Current Professional Registration (State And Discipline)

Professional Engineer: FL, GA, NC, SC



James William Kappes, P.E., Electrical Engineer
Hillers Electrical Engineering, Inc.

Education

Bachelor of Science in Electrical Engineering, 2005
Florida Atlantic University

Professional Registration

Registered Electrical Engineer, Florida No. 71499

Experience

13 years electrical design and construction management

Airport experience includes runway, taxiway, centerline, runway guard lights, apron and approach lighting systems for major air carrier and general aviation airports, guidance and mandatory signage, MALSR, LAHSO, PAPI, REIL and NAVAID systems, instrumentation landing systems, FAA coordination, airfield lighting control systems, airfield electrical vaults, aircraft maintenance hangars, T hangars, fuel systems, and security systems.

Responsibilities included estimating, project budgeting, contract administration, scheduling, staffing, submittals, client/owner interaction, cost analysis, labor tracking, quality, value engineering, change orders, invoicing and project close out.

Proficiency with SKM, AutoCAD, LitePRO, GE Lighting Systems Aladan + Plus.

Project Experience

Fort Lauderdale / Hollywood International Airport- Terminal 4 Western Expansion, Fort Lauderdale, FL.

Included on-site verifications, testing and calculations, designed all power, control and lighting systems, fire alarm system, infrastructure for baggage handling systems, 4160V Emergency power expansion, apron lighting, TSA & US Customs screening areas power & lighting systems.

Fort Lauderdale / Hollywood International Airport- Terminal 4 Eastern Expansion, Fort Lauderdale, FL. Included on-site verifications, testing and calculations, designed all power, control and lighting systems, fire alarm system, infrastructure for baggage handling systems, 4160V Emergency power expansion, apron lighting, TSA & US Customs screening areas power & lighting systems.

Miami Dade Aviation Department - Miami International Airport R/W 27L Threshold Relocation Pavement Improvements, Miami, Florida - Design: Included Runway centerline and edge lighting systems modifications, relocation of in-pavement threshold bar, (2) two in-pavement FAA MALSR systems modifications, replacement of edge and centerline circuit conductors and transformers and modifications to existing airfield lighting computer controlled system.

Palm Beach County Department of Airports - 5000 ft. Parallel Taxiway "L-East Extension" Lighting & Signage, West Palm Beach, FL - Design: Included new taxiway edge lighting, new runway guard lighting system, new mandatory & guidance signage, new electrical circuits conductors & conduit systems, FAA ILS Glide Slope relocation, new FAA fiber optic duct bank and airfield lighting vault new current regulators & modifications and new ALCMS airfield lighting computer control system in existing and new FAA ATC.

Broward County Aviation Department - Fort Lauderdale / Hollywood International Airport Designed & Construction services: Airfield Modifications 3 High Speed Exit Taxiways & Taxiways A & B Rehabilitation Project, Ft. Lauderdale, FL - Design: Included new runway & taxiway lighting and signage systems, modifications to existing FAA MALSR approach lighting system, complete new runway in pavement guard lighting system, relocation of existing 4 box PAPI system, complete new computer controlled airfield lighting systems in airfield lighting vault and in FAA air traffic control tower and modifications to the existing airfield lighting vault that included new regulators, power & control systems.



Amy L. Champagne-Baker, P.E., Senior Electrical Engineer
Hillers Electrical Engineering, Inc.

Education

Bachelor of Science in Electrical Engineering, 1997
Clarkson University
Professional Registration
Registered Electrical Engineer, Florida No. 73735
Registered Electrical Engineer, Connecticut No. 27854

Experience

21 years electrical design and construction management

Airport experience includes runway, taxiway, centerline, runway guard lights, wig-wags, apron and approach lighting systems for major air carrier and general aviation airports, guidance and mandatory signage, MALSR, LAHSO, PAPI, REIL, ODALs, glideslope, instrument landing systems, FAA relocation of RT and RR facilities, FAA coordination, airfield lighting control systems, airfield electrical vaults, aircraft maintenance hangars, T hangars, fuel systems, security systems, parking garages, and park and ride lighting.

Responsibilities included estimating, project budgeting, contract administration, scheduling, staffing, resource allocation, subcontracts, submittals, purchasing, client/owner interaction, cost analysis, labor tracking, quality, value engineering, change orders, invoicing and project close out.

Proficiency with AutoCAD, MicroStation, SKM Power Tools™ for Windows DAPPER, CAPTOR, LitePRO, GE Lighting Systems Aladan + Plus.

Professional Membership

LEED Accredited Professional

Project Experience

Ft. Lauderdale International Airport - FLL WP-304/305 Runway, Crossfield Taxiways & Holdpad Paving, Lighting and Signage - Provided design services for the new 8,000ft Runway 10R-28L project at Ft Lauderdale International Airport. Project included demolition of existing runway and taxiway lighting and signage systems, design of new runway and taxiway lighting systems, modification of airfield electrical vault, new ductbank systems, new navigational aids, lighting systems.

Fort Lauderdale / Hollywood International Airport- Terminal 4 Western Expansion, Fort Lauderdale, FL - Included on-site verifications, testing and calculations, designed all power, control and lighting systems, fire alarm system, infrastructure for baggage handling systems, 4160V Emergency power expansion, apron lighting, TSA & US Customs screening areas power & lighting systems.

Fort Lauderdale / Hollywood International Airport- Terminal 4 Eastern Expansion, Fort Lauderdale, FL - Included on-site verifications, testing and calculations, designed all power, control and lighting systems, fire alarm system, infrastructure for baggage handling systems, 4160V Emergency power expansion, apron lighting, TSA & US Customs screening areas power & lighting systems.

Fort Lauderdale/Hollywood International Airport – New Airfield Vault Electrical Normal & Emergency Power Distribution Systems. Included calculations, layouts, circuitry new distribution systems with main switchgear, transfer switches, conduit systems to all the airfield lighting & NAVAID systems.

Fort Lauderdale / Hollywood International Airport Designed & Construction Services - Airfield Modifications 3 High Speed Exit Taxiways & Taxiways A & B Rehabilitation Project, Ft. Lauderdale, FL - Design: Included new runway & taxiway lighting and signage systems, modifications to existing FAA MALSR approach lighting system, complete new runway in pavement guard lighting system, relocation of existing 4 box PAPI system, complete new computer controlled airfield lighting systems in airfield lighting vault and in FAA air traffic control tower and modifications to the existing airfield lighting vault that included new regulators, power & control systems.

PROFESSIONAL EXPERIENCE

Mr. Raj Krishnasamy, P.E., President and Principal Engineer of Tierra South Florida, Inc. (TSF), is a Florida State Registered Geotechnical Engineer with over 31 years of experience. Mr. Krishnasamy oversees the geotechnical engineering, construction materials testing, and inspection services operations. His experience consists of successfully completing over 3,500 public and private projects, **highlighted by 150+ aviation projects, design-build projects over \$2 billion in construction costs, and prominent projects such as Fort Lauderdale-Hollywood International Airport's South Runway Expansion (featuring the largest MSE wall in Florida).** He serves as Project Manager for continuing contracts with over 25 Florida public agencies and is the **Lead Geotechnical Engineer on numerous aviation continuing contracts including: "Professional Consultant Services for Fort Lauderdale-Hollywood International Airport and North Perry Airport, Building Projects", "Palm Beach County Department of Airports General Consultant Services", and the City of Fort Lauderdale's "Aviation Consulting Services, General Engineering"** amongst others. He has a history of repeatedly retaining those contracts through successful, cost-effective and prompt execution of each task order. Mr. Krishnasamy's daily involvement with the in-house and field operations of the construction and geotechnical services departments provides him the "hands-on" experience and knowledge of current construction codes and construction practices throughout the State of Florida.

KEY AVIATION PROJECT EXPERIENCE

Western Expansion of Terminal 4 and Connector Bridge to Terminal 3, Fort Lauderdale – Hollywood International Airport, Broward County, Florida Performed a geotechnical engineering study for the terminal expansion and connector bridge. Provided geotechnical recommendations regarding foundation design, including evaluating the use of Auger Cast-In-Place (ACIP) piles. Provided ACIP pile design criteria and recommendations, site preparation recommendations, floor slab recommendations, and information regarding trench excavations.

Terminal 4 West Fuel Hydrant System, Fort Lauderdale – Hollywood International Airport, Broward County, Florida Performed a geotechnical engineering study to explore the subsurface conditions at the site to enable an evaluation of acceptable foundation for the construction. Provided a geotechnical report summarizing findings as well as geotechnical recommendations regarding foundation design and soil parameters.

Terminal 3 Modernization, Fort Lauderdale-Hollywood International Airport, Broward County, Florida Performed a geotechnical engineering study for the Terminal 3 Modernization, which consists of remodeling at 18 separate areas. Evaluated the use of shallow and deep foundations for support of the proposed building addition. Provided geotechnical recommendations for shallow foundation design, alternate deep foundation (auger cast pile foundation) design option, ground floor slab, utilities, dewatering/excavations, passenger loading bridge foundation design, and site preparation.

Terminal 2 Modernization, Fort Lauderdale-Hollywood International Airport, Broward County, Florida Performed a geotechnical engineering study for the Terminal 2 Modernization, which consists of remodeling of the existing interior of the Terminal 2 building. The project also includes an addition to the middle section of the building on the north end. The proposed addition design consists of an expanded roof and a mezzanine level on the north side. Evaluated the use of shallow and deep foundations for support of the proposed building addition. Provided geotechnical recommendations for shallow foundation design, alternate deep foundation (auger cast pile foundation) design option, ground floor slab, utilities, dewatering/excavations, and site preparation.

Terminal 1 - Concourse B - Settlement Evaluation, Fort Lauderdale-Hollywood International Airport, Broward County, Florida Performed a subsurface investigation to gather information regarding the cause of the cracking at various locations within Concourse B, ground level. Confirmed the presence of an unsuitable silt/peat layer throughout portions of the building and provided remedial recommendations for slab-on-grade. Discussed rigid inclusions vs. slab removal and installation of pin piles or helical anchors.

RAJ KRISHNASAMY, P.E.

PRESIDENT, PRINCIPAL
ENGINEER

31 Years of Experience



EDUCATION

MS in Geotechnical Engineering,
University of Memphis 1995

BS in Civil Engineering,
Christian Brothers University 1987

Diploma in Electronic Engineering,
Malaysian Air Force Institute 1984

PROFESSIONAL ORGANIZATION AND REGISTRATION

Professional Engineer: Florida,
53567

Certified OSHA Supervisor

Certified Environmental Consultant

PROFESSIONAL EXPERIENCE

Mr. Thomas has 25 years of experience in geotechnical engineering, construction materials testing and inspection services, managing numerous projects involving subsurface investigation, laboratory testing programs and evaluating construction activities throughout South Florida. He has extensive experience in deep and shallow foundation systems, soil stabilization methods, grouting, and pavement sections evaluation. He has been involved in construction monitoring and supervision for private and government facilities and has been involved in construction/foundation installation for airport, commercial, municipal, healthcare, retail and school facilities, and has monitored the construction of numerous civil and structural designs involving earthwork, concrete, masonry and asphalt operations. Mr. Thomas has worked on over 50 aviation projects throughout the state of Florida, including providing materials testing and inspections services for FLL South Runway's Site Preparation & NAVAIDS Infrastructure and QAMT services for U.S.1/FEC RR Structures; Runway & Parallel Taxiway Paving, Lighting, Signage, & Marking; and Project Definition and Cost Estimation Terminal Modernization (1, 2, 3). Mr. Thomas has overseen services including inspection of asphalt plant supplier, density tests, LBR/CBR/FBR tests, inspection and asphalt testing, miscellaneous concrete tests, earthwork monitoring/testing, witnessing of asphalt core drilling and delivery to plant, issuance of daily reports in FAA format, etc. He is extensively familiar with the unique demands of aviation projects during the construction phase. He is committed to completing projects on time and within budget, with a proven record of flexible scheduling through night/weekend shifts and on occasions 24 hour shifts as needed.

RELEVANT AVIATION PROJECT EXPERIENCE

QAMT South Runway WP303 U.S.1/FEC Railroad Structures, Fort Lauderdale – Hollywood International Airport, Broward County, Florida TSF provided QAMT services for the reconfiguration of US-1 at the east end of the new south runway which included tunnel/bridge construction, roadway widening and re-alignment, new exit/entrance ramps, and asphalt paving. The center piece of the construction phase includes a tunnel that will allow US-1 traffic to be routed under the new runway and taxiway. Portions of the project are under FDOT jurisdiction while other portions are under FAA jurisdiction requirements.

Taxiway Bravo Rehabilitation, Fort Lauderdale Executive Airport, Broward County, Florida (2013) Provided materials testing and inspection services for the taxiway rehabilitation. Performed laboratory testing including LBRs, Proctors, and concrete breaks. Provided earthwork and concrete inspections during subgrade and base construction. During asphalt pavement rehabilitation (milling and resurfacing), provided field asphalt inspectors to observe placement of test strip, tack placement, and surface and leveling courses. TSF inspectors were also in charge of tracking all tonnage, waste quantities, tack and prime quantities, and based on those numbers the inspectors verified pay applications. Also provided all asphalt plant inspections prior to and during all asphalt field activities.

Taxiway Delta & Charlie Rehabilitation Project, Fort Lauderdale Executive Airport, Broward County, Florida Performed geotechnical services for the milling and resurfacing of Taxiway Delta & Charlie. Provided geotechnical engineering report discussing the subsurface conditions found, groundwater conditions, and pavement core test results.

Taxiway Echo Rehabilitation, Fort Lauderdale Executive Airport, Broward County, Florida Performed geotechnical and laboratory services for the rehabilitation which included reconstruction or milling and resurfacing of Taxiway Echo and connectors.

QAMT South Runway WP302 Site Preparation & NAVAIDS Infrastructure, Fort Lauderdale – Hollywood International Airport, Broward County, Florida Provided QAMT services for the construction of the new south runway, taxiway and connectors. The center piece of this construction phase included the tallest MSE wall in the State of Florida that required soil improvement and surcharge prior to acceptance. TSF provided geotechnical professionals during the soil improvement program, surcharge review data, and settlement plate readings.

FRANCOIS THOMAS, P.E., S.I.

**PRINCIPAL MATERIALS ENGINEER/
SPECIAL INSPECTOR
25 Years of Experience**



EDUCATION

MS in Geotechnical Engineering,
University of Alabama, 1993

BS in Civil Engineering,
University of Alabama, 1991

PROFESSIONAL ORGANIZATION AND REGISTRATION

Professional Engineer: Florida,
56381

Special Inspector 7021399

Certified Masonry Inspector

Certified Troxler Operator

Radiation Safety Officer

CITY OF RESIDENCE

Jupiter, Florida

EDUCATION:

Post Graduate Diploma in Structural Engineering
England, United Kingdom

Bachelor of Science Honors Degree in Civil Engineering
With Structural Engineer Major
University of Hartford, England, United Kingdom

Higher National Certificate in Civil Engineering
Hertfordshire College of Building, England, United Kingdom

NATIONAL & STATE AWARDS:

- *Tamarac City Complex: National Award: Structural Engineer of Record*
- *Aventura City Complex: State Award: Structural Engineer of Record*
- *Tamarac Pedestrian Bridge: State Award: Structural Engineer of Record*
- *2011 National Tilt-Up Achievement Award – Tilt-Up Concrete Association*

PROFESSIONAL ENGINEER REGISTRATIONS:

Engineering

- Chartered Structural Engineering
London, England – 1981
- Florida #037590
- South Dakota – 4058
- Minnesota - #17947

Construction

- Florida Certified General Contractor – CGC 044303

Inspection

- Certified Structural Masonry Inspector – 1992
- Certified Threshold Inspector – 1987
- Certified Uniform Building Code Inspector - 690

- Structural Engineering Expert for Unsafe Structure Board – City of Margate since “2001”.
- Structural expert witness services over 400 residential projects for Insurance companies, over 58 projects failure analysis and Expert testimony for litigation representation.

EXPERIENCE:

Thirty-six years of practicing as a Professional Structural Engineer in the following disciplines: building structures, marine and bridge engineering structures for many state, county and city agencies in support of high visible and miscellaneous public projects.

Over 1500 projects were completed in South Florida and the Caribbean Basin during the last 31 years.

Building Projects:

- ❖ 8 new stand alone multi-story parking garages
- ❖ Over 10 multi-stories residential buildings with parking garages
- ❖ Over 5 multi-stories commercial buildings with parking garages
- ❖ 11 cruise terminal facilities
- ❖ Renovation and expansion of 61 existing elementary, middle and high schools.
- ❖ 6 high schools, 8 middle schools and 14 elementary schools (New)
- ❖ 11 community college building facilities, 6 special education facilities
- ❖ 18 multi-story hotels and resort projects
- ❖ Structural renovations of 11 parking garages, 21 condominiums
- ❖ 8 new libraries, 8 auditorium and amphitheater
- ❖ 14 new fire stations, 7 police and public safety buildings
- ❖ 6 new city complexes with two award winning structures

Water and Waste Water Treatment and Solid Waste Treatment Plants:

- ❖ 12 water and waste water treatment plants expansion projects
- ❖ 6 solid waste treatment plant renovation and expansion projects
- ❖ 14 water and waste water treatment plant renovation projects

Highway and Pedestrian Bridges:

- ❖ 18 new highway bridges ❖ 11 pedestrian bridges ❖ 14 passenger loading bridges
- ❖ 16 high-way bridge expansion projects

Mast Arm Structures:

- ❖ 400 Mast Arm Structures

Value Engineering and Constructability Review

Participated as structural expert for over 31 value-engineering sessions for both FDOT and County’s major projects in building, bridges and water and wastewater treatment plants.

Structural Failure Analysis and Expert Witness: Construction Related Litigation

- 12 Commercial projects ❖ 46 Residential projects



LAKDAS/YOHALEM ENGINEERING, INC.
CONSULTING ENGINEERS



Wendy Cyriacks

Principal-in-Charge

CECOS: 15 years

Office Location

- Deerfield Beach, FL

Education

- B.S. Marine Biology, Nova Southeast University (graduate classes completed, 2004)
- B.S. Biology, University of Miami, 1983

Special Qualifications

- 25+ years environmental experience in south Florida
- Extensive PD&E & environmental permitting experience
- Former FDOT Environmental Administrator, Districts 4 & 6
- FWC Certified Manatee Observer
- FDEP Certified Erosion and Sediment Control Inspector (2004)
- PADI Open Water Diver, Advanced Diver, Rescue Diver, AAUS Scientific Diver, Nitrox certified

Wendy Cyriacks has over 25 years' experience in environmental analysis and impact studies, permitting and NEPA documentation/PD&E studies. She has lived in south Florida since 1979 and is currently a resident of Islamorada (Plantation Key) and Lighthouse Point. Wendy serves as Principal in Charge and/or Sr. Environmental Scientist on large scale environmental projects. As former FDOT Environmental Administrator of FDOT District 6 (Monroe and Miami-Dade Counties) she is familiar with the environmental issues of the Keys. She has coordinated extensively with permitting agencies and has been responsible for obtaining state, federal and local environmental permits on numerous public sector projects. She has managed and/or conducted natural resource studies including wetlands, marine benthic studies, threatened and endangered species, and contamination assessments. She has also developed mitigation and monitoring plans and conducted permit compliance reviews.

PROJECT EXPERIENCE

Palm Beach County General Consulting Services, Palm Beach County Department of Airports, Palm Beach County, FL - Environmental Manager for three separate PBC DOA General Consulting Services contract since 2009; providing miscellaneous environmental and permitting services including wildlife studies surveys (burrowing owl, gopher tortoise, wildlife hazard assessment), environmental permitting for NCO and LNA, annual SWPPP updates and compliance inspections (2011 - 2016), wetland delineations and agency coordination.

Environmental Permitting and Compliance, U.S. 1/FEC RR Structures for the Expansion of Runway 9R-27L at FLL Airport, Broward County Aviation Department, Broward County, FL - This major project involves design and construction of the realignment of US1 and structures that will carry Runway 9R-27L and Taxiway over US-1, FEC RR and the Airport's East Perimeter Road. Project Manager responsible for the environmental permitting effort including SFWMD ERP, USACE Dredge/Fill, SFWMD and Broward County EPGMD Dewatering permits, Tree permits, Stormwater and Wetland Resource permits. Specific activities include project oversight, scheduling, client and agency coordination and quality control of all submittals.

- **Environmental Studies & Permitting, Lantana Airport Stormwater Master Plan, Palm Beach County Department of Aviation, West Palm Beach, FL** - The project involves developing a Conceptual Stormwater Management Master Plan and Environmental Resource Permit (ERP) application. As Environmental Project Manager, primary responsibilities were to assist in the preparation of the permit application and to conduct all environmental related work. Specific activities include overseeing all environmental work activities, conducting quality control reviews for all aspects of the study and scheduling, team coordination and all project management activities. Additional activities include technical assistance, agency coordination, wetland delineations, UMAMs and identification of mitigation options.
- **Environmental Permitting, I-595/Port Everglades Expressway Corridor Improvements, I-595 Express, LLC./FDOT District 4. Ft Lauderdale, Broward County, FL** - This Private-Public Partnership project (P3) involved major reconstruction of I-595 mainline and interchanges and extended from SW 136th Street to east of SR 7. Environmental Manager responsible for all interagency coordination, permit agency liaison, permit preparation and quality control reviews. This was a fast track project with over 25 permits being obtained within the 18 months. Permits were required from Broward County, SFWMD (ERP, R/W Occupancy and Dewatering), USACE Dredge/Fill, FDEP NPDES and several Drainage Districts. Prepared and coordinated documentation for Section 408 approval from the USACE for modification to the North New River Canal.
- **Environmental Permitting, SR 710 Design-Build RFP Package Development, FDOT District 4, Palm Beach, FL** - This project extends 5.5 miles from just west of the Martin/Palm Beach County line to the Pratt Whitney Entrance. Project Manager responsible for environmental permitting including development of the Environmental Resource Permit (ERP) package, coordination with SFWMD and USACE on jurisdictional wetland lines and impacts, developing functional assessment scores for preparation of Bid package for mitigation. Also responsible for preparing the environmental portions of the Design-Build RFP package and serving as a member of the Technical Advisory Group.



SHERYL A. DICKEY PROFILE

Sheryl A. Dickey is the President and Chief Executive Officer of Dickey Consulting Services, Inc. with more than 30 years experience in the social, economic and political revitalization of neighborhoods, cities and communities. She enjoys success in international trade and business development, establishing community development corporations, marketing, public involvement, public relations programs, coordinating and implementing employment and training programs.

Over the past 30 years, Ms. Dickey has developed her knowledge and skills as an economic development and government relations professional. She provides financial, technical, marketing, and human relations assistance to private and public concerns. She develops programs for private and public sector organizations to assist small business.

Ms. Dickey's professional experiences include Director of Economic and Community Development for Blockbuster Entertainment Corporation and Director of Economic Development for the City of Fort Lauderdale, in Fort Lauderdale, Florida. She was formerly the Deputy Director of Economic Development for the Toledo/Lucas County Port Authority in Toledo, Ohio, the Director of Small and Developing Businesses for the State of Ohio Department of Development, in Columbus, Ohio, and a former member of the Portsmouth City Council in Portsmouth, Ohio. Ms. Dickey's prior experiences include a variety of positions supporting small business development and community revitalization.

Ms Dickey completed her undergraduate education in social work at The Ohio State University in Columbus, Ohio.

Ms Dickey is active in many community and business organizations including the Urban Core Committee of Broward Workshop, Greater Fort Lauderdale Chamber of Commerce, Leadership Broward, Riverwalk Trust, Association for Women in Communication, International Council for Urban and Economic Development, and Delta Sigma Theta Sorority. She is the former Chair of the Broward Public Library Foundation.



Approach to Scope of Work 5.0



GENERAL UNDERSTANDING

As the general engineering aviation consultant, we understand that KEITH will be the first point of contact for the on-call engineering and architecture needs of FXE. Our subconsultant team's long history of working together and with FXE will serve to enhance the proven project management and execution strategies that have made KEITH successful through the years.

PROJECT APPROACH

The KEITH team has experienced, technically skilled individuals who are readily available to provide the services necessary to successfully complete this task order contract. We have assembled the appropriate team members for each specific task area and can provide additional professionals for any unique tasks that may arise. Our experience, coupled with our technical expertise, ensures that our approach and methodology will result in accurate documents and designs. The combination of our firm's local presence, experienced personnel, government experience and our reputation for quality and timely project completion, provides for a strong competent project team.

PROJECTS LISTED IN THE REQUEST FOR QUALIFICATIONS:

There are six projects specifically identified in the RFQ. The KEITH team will apply the strategies outlined in this section to meet the needs of those specific projects. The roles of project team members are shown on the organizational chart. Specific roles for the identified projects are described as follows:

Airfield Signage Replacement - HEE will be the lead engineer on this project, with the team from RS&H providing independent quality review.

Taxiway Extension; Taxiway Intersection Improvements; By-pass Taxiways - KEITH will be the lead engineer on these projects, with RS&H providing independent quality review or more significant civil support depending on the project timing and the available resources to meet the project schedules.

Run-up Area Expansion - KEITH will be the lead engineer on this project with RS&H providing structural engineering support and LYE providing independent structural quality review.

AES Facility Expansion - RS&H will be the project architect, with HEE providing electrical engineering support, KEITH providing site civil and landscape architecture services, and LYE providing independent review of structural engineering

PROJECT MANAGEMENT

KEITH feels that managing project scheduling and controlling project costs are best accomplished by maintaining open communication with the Airport throughout the entire project duration, from Project scoping to the end of the Contractor warranty period. Implementing a Preliminary and Final Construction Plan review process, promotes efficient management, scheduling and cost control by involving all stakeholders in the preliminary plan development. When approaching any work order assignment, the KEITH Team will follow a set of procedures to ensure the best deliverable. The Team will consider certain factors and specific initiatives are always



evaluated and implemented. Under the direction and guidance of the Contract Manager, Mr. John Thompson, P.E., team members undertake the following approach to each assignment

UNDERSTANDING THE SCOPE - The scope of services defines the nature and volume of work to be performed. The first step to any project is the most important, as it lays the foundation for the success of the endeavor. Mr. Thompson will meet and/or talk with the Airport Staff to discuss the details of the proposed scope of services, determine what documents the Airport has on file and discuss any potential issues such as traffic levels, safety needs, anticipated schedule, public concerns,

etc. This meeting is critical to ensuring that there are no misunderstandings and no assumptions being made by either party regarding the Airport's final needs and goals. Specific attention is given to:

- Define Tasks to Be Performed & Deliverables
- Define Special Instructions or Standards
- Assess Safety / MOT Concerns / Optional Site Visit
- Research/Develop Work Plan & Schedule Constraints
- Define Staff Requirements
- Define Equipment & Method of Collecting the Data

PROJECT RESEARCH - Proper research will be conducted as necessary for each work order by the appropriate disciplines. Analysis of existing conditions and coordination with disciplines that could affect the project is critical to the initial success of the project. The extent and type of research will be determined based upon the scope.

PREPARE STAFF-HOUR ESTIMATES - After acquiring an understanding of the services needed to complete the assigned project and developing an understanding of the sequence of tasks to be accomplished, the assigned project manager can create an informed staff-hour estimates and project fee.

NEGOTIATIONS - The scope of services, staff-hour estimate and fee proposal are submitted to the Airport Project Manager and negotiations are conducted to establish a fair and competitive fee. KEITH prides itself on providing reasonable staff-hour quantities and work plans, while working within the budgets as defined by the Airport. A time-line will be established per work order that will fulfill the project's needs.

WRITTEN AUTHORIZATION - No work is performed without written authorization to proceed from the Airport. If alternative data collection processes are required, prior written approval is also obtained.

PROJECT KICK-OFF MEETING - Every work order begins with a mandatory kick-off meeting of all Team members. Key office and field personnel are included to review the scope of services, schedules, specific work assignments, roles and responsibilities of staff members and project concerns.

CONTRACT MANAGER ROLE AND RESPONSIBILITIES

KEITH uses proactive management principles to develop innovative project solutions and procedures allowing us to work efficiently and effectively. Mr. Thompson will ensure that our team performs in strict conformance with all contract requirements including scope, schedule, budget and quality.

Our Team provides a proactive, personalized approach for our clients beginning with communication. We believe a key component to the success of any contract is proper and open lines of communication between the members of the overall project team. Work efforts should appear trouble-free as the Team provides seamless professional services to the Airport on every assignment. Of equal importance is the communication between the KEITH Project Manager and the Airport Project Manager. These relationships allow the Team to anticipate and resolve potential project pitfalls and assure schedule compliance is maintained.

Another key to a successful project management program is the acceptance of responsibility and accountability by the project/contract staff and support from the client's management staff. The combination of seasoned staff throughout our Team, having an established working history together on numerous projects, provides for an acceptance and accountability of ownership to employ true project management philosophies and proactive initiatives that diminish unforeseen potential project issues and/or concerns.

QUALITY CONTROL

A major aspect of the Project Management and the quality commitment to this contract is independent peer review as part of our contract quality control/quality assurance program. Quality is obtained by successfully providing proper project approach, constant project supervision and communication, complete project documentation, active senior management involvement and a final formal quality review prior to submission to the Airport. Quality Control reviews are performed at many levels by key staff throughout the project timeline, including daily field reviews, weekly project status reviews, milestone reviews, CADD compliance of 95% or better and closures/data/calculations reviews.

The KEITH Team continually monitors its QA/QC plan and adjusts as lessons learned are implemented into the Plan. Mr. Donahue bears the ultimate responsibility for the Team complying with a detailed QA/QC plan that is both practical and effective and is implemented on every assignment to assure the Airport receives the quality work it deserves.

CONSTRUCTION DOCUMENTS

Once a design alternative is chosen by the Airport, KEITH will initiate a final detailed design of the proposed improvements. Detailed calculations shall be performed to assure the existing and proposed elements are adequately sized.

PERMITTING AND ENTITLEMENT PROCESS

The KEITH team will prepare and process all permitting/approval applications to the various governmental and quasi-governmental agencies who have jurisdiction over the project elements. In addition to having a very close relationship with jurisdictional agencies, the KEITH team has also been successful in processing permit approvals, expediting permit approvals, processing construction permit certifications and operational recertification's for several projects.

DISADVANTAGED BUSINESS ENTERPRISES

As part of the general consulting services, the KEITH team offers the service of a well-respected and knowledgeable DBE Program Administrator (DBEPA). While the RFQ does not specifically mention a DBE requirement, as a recent graduate of the DBE Program, KEITH is committed to supporting Local, Minority, Woman, and Veteran Owned Businesses. The Airport's goals are our goals, and KEITH will work to meet or exceed the Airport's objectives.

BIDDING PHASE SERVICES

Working with City procurement staff, KEITH will supplement the management of the project bid services by providing representation at the pre-bid meeting, responding to contractors' inquiries (RFIs) and modifying needed plan changes or plan clarifications in the form of plan addenda. Review of the individual bids toward providing bid award recommendations will be included in this service.

If requested, the KEITH team will be able to assist and/or offer guidance to the City/FXE in establishing methodology to set up a procurement process that will help ensure the selection of the most qualified contractor possible which should help in maintaining the project within budget and on schedule. KEITH has assisted other municipalities such as the City of Deerfield Beach, City of Parkland and Broward County in setting up mechanisms to allow alternative procurement processes to be adopted while following all State competitive statutes.

PROJECT CLOSE-OUT SERVICES

This service will include performing walk-thru inspections, development of a final punch list with the FXE Project Manager and defining those items that need to be completed prior to establishing a date of Substantial Completion. Review of project As-built Drawings for conformance with FXE As-built standards, as well as performing other required close-out documentation. Final certifications to the permitting and entitlement agencies will be performed in a timely manner to facilitate the operational characteristics, including of the modified Stormwater Management Improvements.

SCHEDULE/BUDGET RESPONSIVENESS

While all work elements must be executed in a quality fashion, they also must be performed responsively, in accordance with the FXE's schedule and budget objectives. The depth of staff, both in number and experience, will permit us to continue to satisfy our project commitments for FXE, without sacrificing quality and responsiveness. Potential delays and cost overruns are contained and minimized through routine weekly department meetings aimed at maximizing project scheduling effectiveness. Senior management oversight and weekly interaction ensures that the delivery, budget and project communication maintain the utmost priority within the Firm. Communication is the key to identifying and resolving project pitfalls quickly, while maintaining schedules and budgets.

TECHNOLOGIES

The KEITH team possesses a number of technologies that allow us to communicate and deliver on our ideas in a more effective manner. Our team utilizes these technologies both in the field and in the office to verify accuracy of existing features through our 3D Scanning, Survey and SUE capabilities. This up front due diligence allows our team to ensure the base plans and data that is used to create future implementation plans is

accurate and coordinated. In the design process, our team utilizes a number of visualization tools to create photo realistic renderings and video animations that are often key to presenting ideas to the Public and Elected Officials who are not often accustomed to reading detailed plans.

Often, we utilize drone images or footage as a part of this visualization to show before and after scenarios. As we progress to detailed design our team has the capability of producing drawings in Revit / Civil 3D to allow for coordination of BIM (Building Information Modeling) and CIM (Civil Information Modeling) to allow optimum coordination and performance review of the projects systems. Our team utilizes multiple software platforms as well for both design and project management including but not limited to: AutoCAD, CivilCAD, Microstation, Adobe Creative Suite (Photoshop, Illustrator, InDesign, Premiere, Etc), Sketch-up, Lumion, Basecamp, Microsoft Suite (Word, Excel, Power Point, Project Scheduler, Etc), Skype and we also have full plotting and scanning capacity in office making production as efficient and cost effective as possible.

WORKLOAD MANAGEMENT

KEITH manages its long and short-term workload fluctuations through a policy of proactive management and resource/personnel sharing. Our diverse staff has made the commitment of their time and energy to meet the schedule requirements of similar contracts in the past and is committed in providing unparalleled service to this contract. Delays are contained and minimized through routine weekly department/project meetings aimed at maximizing project scheduling effectiveness. Our staff routinely operates on extended and modified work schedules allowing for expedited project executions and absorption of unforeseen schedule challenges. We carefully monitor our staff's hours which allows us to properly plan for additional staffing requirements. In some circumstances, we have actually passed on contracts if we felt they would unduly burden our staff to perform in a timely efficient manner. This senior management oversight and weekly interaction ensures that the delivery and project communication remain with the utmost priority within the firm.

GRANT MANAGEMENT PROCESS

Grant management is part of the FXE's larger financial management and capital planning effort. The various key steps in the process are described below.

The first issue is to identify the FXE's goals from the FAA/State grant application process. These goals are part of the airport's larger set of objectives, which likely include issues such as meeting aviation demand, improving the customer experience, and operating in a sound financial manner. The specific goals of the facility and capital program improvement effort likely include:

- Identifying the highest priority and most beneficial capital projects
- Seeking the maximum amount of external funds for projects
- Quantifying the most logical purchase or method of obtaining the desired goal
- Following FAA, state, and other procurement requirements
- Attempting to simplify and accelerate the process, to the degree possible
- Maximizing local involvement and benefit from the capital projects

The steps in our grant management process are:

Initial Financial and Facility Planning

One of the most important steps in the grant process is developing an overall facility improvement plan and designing a financial program to accomplish it. The facility planning process begins with an updated airport master plan, approved ALP, complete five-year CIP, and detailed multiyear capital budget. The financial planning process includes developing and analyzing project priorities, identifying potential funding sources of funds, and creating an implementation plan. A critical part of this process is prioritizing FAA Entitlement; FAA Discretionary; State of Florida, local, private, and other funding, as each type of funds has requirements, availability, and funding limits. Further, most airports can accomplish only a certain number or type of capital projects each year due to funding, personnel, and other constraints. The issue then becomes to weigh, balance, and prioritize the projects. FAA and other external funding require careful coordination with their respective agencies.

Drafting the Grant Application

Actually, one of the easiest parts of the process is writing the grant application itself. The process is easy if you have determined the eligibility and coordinated with the FAA or other grant agency; however, the “standard” forms and long list of procurement rules can complicate the process. There is often need for a Benefit-Cost Analysis, environmental review, or other additional project justification per FAA requirements. In some cases, there is need for public involvement/ coordination, as well as seeking the support of elected representatives to support the project implementation or grant request.

Submitting the Grant Application

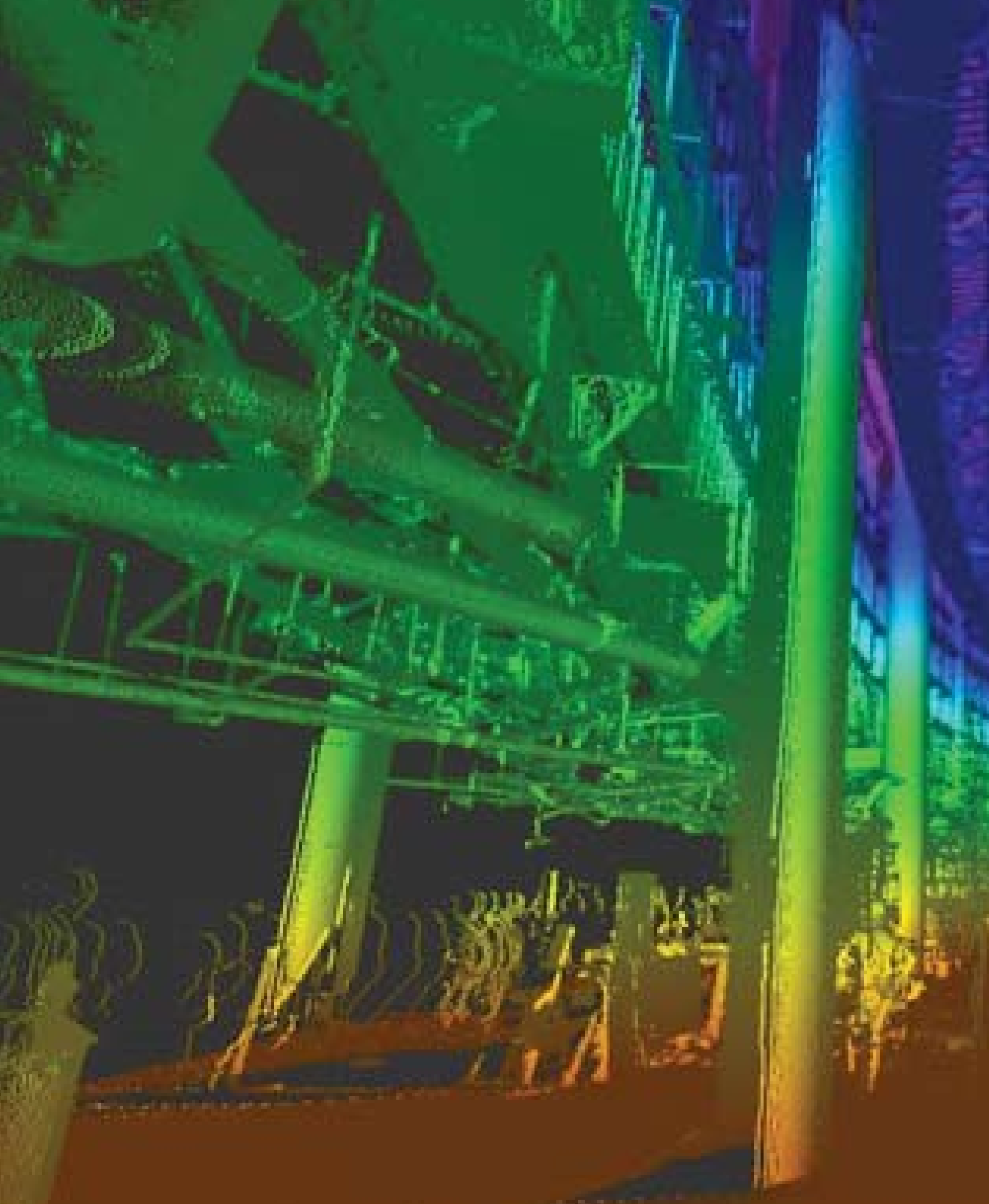
Once submitted, grant approval is not necessarily guaranteed. Issues include receipt and acceptance by the local FAA office and identification of the project priority. Grants need to be carefully written to describe the project in such a way as to rank highest in value to the national aviation system. Projects the need to be recognized as a high-priority by the FAA or other grant agency. Other issues include the lack of annual appropriation of funds by Congress with resulting delays. The typical “start-stop” method of government operation often makes airport capital planning difficult. The FAA sometimes has “extra” funds available at the end of a fiscal year; Therefore, RS&H recommends airports have project plans prepared ahead of time to take advantage of available funds.

Managing the Grant

Once the grant is approved, another list of steps is required. These include anticipating the award so that contractors and funds are available, preparing all the payment and project tracking documents, keeping the FAA informed of the project’s progress, and closing out the project in a timely manner. The record-keeping for a project is just as important as the other steps.

Project Completion

Upon project completion, final closeout documents, including record drawing, pay applications, and certifications of payment, are submitted. Proper and timely closeout is critical as to not impact future grants.



References

6.0

Professional Consultant Services for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Pavement Projects -

Broward County Aviation Department

Marc Gambрил, Director, Capital Improvement Projects Division, Aviation Department

4101 Ravenswood Road, Fort Lauderdale, FL 33312

(954) 359-2343 / mgambрил@broward.org

Contract: 2015 – Ongoing / Cost: \$5 Million (ongoing)

Description of Work: Keith and Associates is prime consultant providing professional services for design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects, which include construction, rehabilitations and renovation activities.

North Runway Miscellaneous Pavement Repairs at Ft. Lauderdale/Hollywood International Airport (FLL) -

Broward County Aviation Department

Gasser Douge, P.E., Engineering Unit Supervisor

4101 Ravenswood Road, Fort Lauderdale, FL 33312

(954) 359-6973 / gdouge@broward.org

Contract: 2011 – 2015 / Cost: \$125,000 (estimated)

Description of Work: Repair of several areas located along Runway 10L-28R as well as one area on Taxiway “B”. The project construction included nightly runway closures, milling and overlaying bituminous concrete pavements, runway pavement grooving, and pavement marking. The project included the design of pavement repairs, and field observations by resident project representatives.

SPACE COAST REGIONAL AIRPORT RUNWAY IMPROVEMENTS -

Titusville-Cocoa Airport Authority

Michael D. Powell, CM, ACE, CEO

355 Golden Knights Blvd.

Titusville, FL 32780

(321) 267-8780 / mpowell@flairport.com

Contract: 2017 / Cost: \$250,000 (estimated)

Description of Work: Keith and Associates (KEITH), as a subconsultant provided surveying services for the rehabilitation of the runway ends including the taxi-ways and aprons, replacement and upgrading of the runway/taxiway lighting system. KEITH conducted a Topographic Survey within the proposed limits of the site in support of this runway improvement project and provided a design survey of the area around the existing runway ends. Included were a detailed elevation model and existing airport striping, signage and lighting inventory.

Sheltair Hangar Expansion Pompano Beach Air Park -

Pompano Beach Air Park

Steven P. Rocco, Airport Manager

1001 NE 10th Street

Pompano Beach, FL 33060

954) 786-4193 / steve.rocco@copbfl.com

Contract: 2015 / \$1.5 Million (estimated)

Description of Work: KEITH was retained by Sheltair to develop and process site plan drawings, perform civil engineering design for water, sewer, paving and drainage improvements, survey, subsurface utility locations, landscape architecture and provide construction phase services for the site improvements to support the addition of office/ hanger buildings approximately 96,100 SF of floor area on 19.6 acres of their leased property.

“Keith and Associates has been a trusted partner on various engineering and surveying projects at this airport. They are experienced and knowledgeable professionals but above all they are committed to the success of each project. They are a pleasure to work with.”

Steven Rocco
Airport Manager
Pompano Beach Air Park





FLL Terminal 1 Concourse A

Minority/Women (M/WBE)

7.0



KEITH is committed to working with the City in its efforts to support small businesses. When possible and available, we look to include companies certified as minority, women and service-disabled veteran business enterprises. We have included in our team Tierra South Florida, Lakdas/Yohalem, Cyriacks Environmental and Dicky Consulting as certified W/MBEs.



Disadvantaged Business Enterprise (DBE) Policy Statement

Keith and Associates, Inc. (KEITH) is presently a Disadvantaged Business Enterprise certified as a Woman Owned Business by the Florida Department of Transportation. It is the policy of this company to continue supporting the DBE program into the future when KEITH successfully graduates the program.

It is the policy of KEITH that disadvantaged businesses, as defined by 49 CFR Part 26, Subpart D and implemented under Rule Chapter 14-78, F.A.C., shall have the opportunity to participate as subcontractors and suppliers on all contracts awarded by the Florida Department of Transportation (FDOT).

The requirements of Rule Chapter 14-78, F.A.C., shall apply to all contracts entered into between FDOT and KEITH. Subcontractors and/or suppliers to KEITH will also be bound by the requirements of Rule Chapter 14-78 F.A.C. and its subcontractors shall take all necessary and reasonable steps in accordance with Chapter 14-78, F.A.C., to ensure that disadvantaged businesses have the opportunity to compete and perform work contracted with FDOT. KEITH and its subcontractors shall not discriminate on the basis of race, color, religion, national origin, disability, sex, or age in the administration of contracts with FDOT.

KEITH's designated and appointed Liaison Officer develops, maintains, and monitors the DBE Affirmative Action Plan implementation. The Liaison Officer will be responsible for disseminating this policy statement throughout the company and to disadvantaged businesses.

Equal Opportunity Employer (EOE) Policy Statement

Keith and Associates, Inc. (KEITH) is an Equal Opportunity Employer and prohibits discrimination and harassment. Keith and Associates, Inc. is committed to the principle of equal employment opportunity for all employees and to providing employees with a work environment free of discrimination and harassment.



Subconsultants



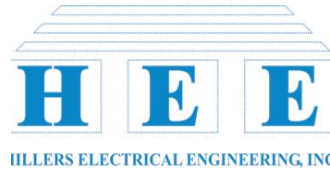
8.0

Project Team

As previously stated within this response, we have selected our team with emphasis placed on professional consultants recognized as leaders in their field and experienced in servicing aviation clients. For subconsultant details, please refer to Tab 4 Organizational Profile and Project Team.



RS&H will be providing Mechanical, Plumbing, Civil and Structural Engineering, Architect, Grant Support



Hilliers Electrical Engineering will be providing Electrical Design.



Tierra South Florida will be providing Geotechnical Engineering, Materials Testing, and Inspection Services



Lakdas/Yohalem Engineering will be providing Structural Engineering.



CECOS will be providing Environmental Consulting



Dickey Consulting will be providing DBE Support Services

FLL Pedestrian Bridge





Forms

9.0



STATEMENT OF QUALIFICATION CERTIFICATION

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) Keith and Associates, Inc.

Address: 301 East Atlantic Boulevard

City: Pompano Beach State: Florida Zip: 33060

Telephone No. (954) 788-3400 FAX No. N/A Email: mail@keith-associates.com

Does your firm qualify for MBE or WBE status: N/A MBE ___ WBE ___

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

| Addendum No. | Date Issued | Addendum No. | Date Issued |
|--------------|-------------|--------------|-------------|
| N/A | | | |
| | | | |

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. If this section does not apply to your bid, simply mark N/A. **If submitting your response electronically through BIDSNC you must click the exception link if any variation or exception is taken to the specifications, terms and conditions.**

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, hereby agrees that in no event shall the City's liability for respondent's indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of five hundred dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Eliot Lazowick
Name (printed) Signature

April 2, 2018
Date: Executive Vice President
Title

City of Fort Lauderdale
General Engineering Aviation Consultant
12120-986

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local BUSINESS preference classification as indicated herein, and further certifies and agrees that it will re-affirm its local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

- (1) Business Name is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt and a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.
- (2) X Business Name is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt or a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.
- (3) Business Name is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.
- (4) Business Name requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
- (5) Business Name requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
- (6) Business Name is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.

BIDDER'S COMPANY: Keith and Associates, Inc.

AUTHORIZED COMPANY PERSON: Eliot Lazowick
NAME SIGNATURE DATE April 2, 2018

NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and free from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

| NAME | RELATIONSHIPS |
|------|---------------|
| N/A | N/A |
| | |
| | |
| | |

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

City of Fort Lauderdale
General Engineering Aviation Consultant
12120-986

CONTRACT PAYMENT METHOD BY P-CARD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to payment by credit card via MasterCard or Visa. This allows you as a vendor of the City of Fort Lauderdale to receive your payment fast and safely. No more waiting for checks to be printed and mailed.

In accordance with Article 7, Item 7.4.3 of the consultant agreement attached herein, payments for all services will be made utilizing the City's P-Card program (MasterCard or Visa). Accordingly, firms must presently have the ability to accept credit card payment or take whatever steps necessary to implement acceptance of a credit card before the commencement of the agreement.

Please indicate with which credit card you prefer to be paid:

- X Master Card
X Visa Card

Company Name: Keith and Associates, Inc.

Eliot Lazowick
Name (printed) Signature
April 2, 2018 Executive Vice President
Date: Title



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
3/21/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| | | | |
|--|--|--|--|
| PRODUCER Frank H. Furman, Inc. 1314 East Atlantic Blvd. P. O. Box 1927 Pompano Beach FL 33061 | | CONTACT NAME: Tina Shannon PHONE: (954) 943-5050 FAX: (954) 942-6310 EMAIL: tina@furmaninsurance.com ADDRESS: Tina Shannon Insurance Company | |
| INSURED Keith & Associates Inc 301 E Atlantic Boulevard Pompano Beach FL 33060 | | INSURER(S) AFFORDING COVERAGE INSURER A: Charter Oak Fire Ins Co (tl) 25615 INSURER B: Travelers Indemnity Co of America 25666 INSURER C: Travelers Property Casualty Co of 25674 INSURER D: AXIS Insurance Company 37273 INSURER E: INSURER F: | |

COVERAGES **CERTIFICATE NUMBER:** 18-19 Master Liability **REVISION NUMBER:**
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSTR | TYPE OF INSURANCE | ADOL | SUBR | POLICY NUMBER | POLICY EFF | POLICY EXP | LIMITS |
|-------|--|------|------|---|------------|------------|---|
| A | <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER | | | 660 1J215564 See End't #CQ D3 21 for the Per Project Limit | 2/19/2018 | 2/19/2019 | EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (EL concurrent) \$ 300,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000 |
| B | <input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> HIRED AUTOS | | | 810 0J942585 | 2/19/2018 | 2/19/2019 | COVERED SINGLE LIMY (EL concurrent) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ PIP-Basic \$ |
| C | <input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> RETENTION \$ <input type="checkbox"/> CLAIMS-MADE | | | CUP 0J961409 | 2/19/2018 | 2/19/2019 | EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 |
| D | <input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below | Y/N | N/A | UB 0K053961 | 2/19/2018 | 2/19/2019 | PER STATUTE <input type="checkbox"/> OTHER <input type="checkbox"/> EL EACH ACCIDENT \$ 1,000,000 EL DISEASE - EA EMPLOYEE \$ 1,000,000 EL DISEASE - POLICY LIMIT \$ 1,000,000 |
| D | <input checked="" type="checkbox"/> Professional Liability | | | DP002191-02-2018 | 3/13/2018 | 3/13/2019 | Each Claim \$2,000,000 Aggregate \$6,000,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Sample

| | |
|---|---|
| CERTIFICATE HOLDER SAMPLE SAMPLE | CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE Angela McNally/TS <i>Angela J McNally</i> |
|---|---|

ACORD 25 (2014/01)
INS025 (2014/01)

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Supplier Response Form

DPX Form

CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH NON-DISCRIMINATION PROVISIONS OF THE CONTRACT

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

- (a) Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability or any other protected classification as defined by applicable law.

Contracts. Every Contract exceeding \$100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

The Contract shall include provisions for the following:

- (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.
(ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

Eliot Lazowick
Authorized Signature

Eliot Lazowick, Executive Vice President
Print Name and Title

keith-associates
Date

Please enter your password below and click Save to save your response.

Please be aware that typing in your password acts as your electronic signature, which is just as legal and binding as an original signature. (See Electronic Signatures in Global and National Commerce Act for more information.)

To take exception:

- 1) Click Take Exception.
- 2) Create a Word document detailing your exceptions.
- 3) Upload exceptions as an attachment to your offer on BidSync's system.

By completing this form, your bid has not yet been submitted. Please click on the place offer button to finish filling out your bid.

Username keith-associates

Password *****

Save Take Exception Close

* Required fields



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Planning & Landscape Architecture Program & Construction Management

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CAM# 18-0676
Exhibit 8
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